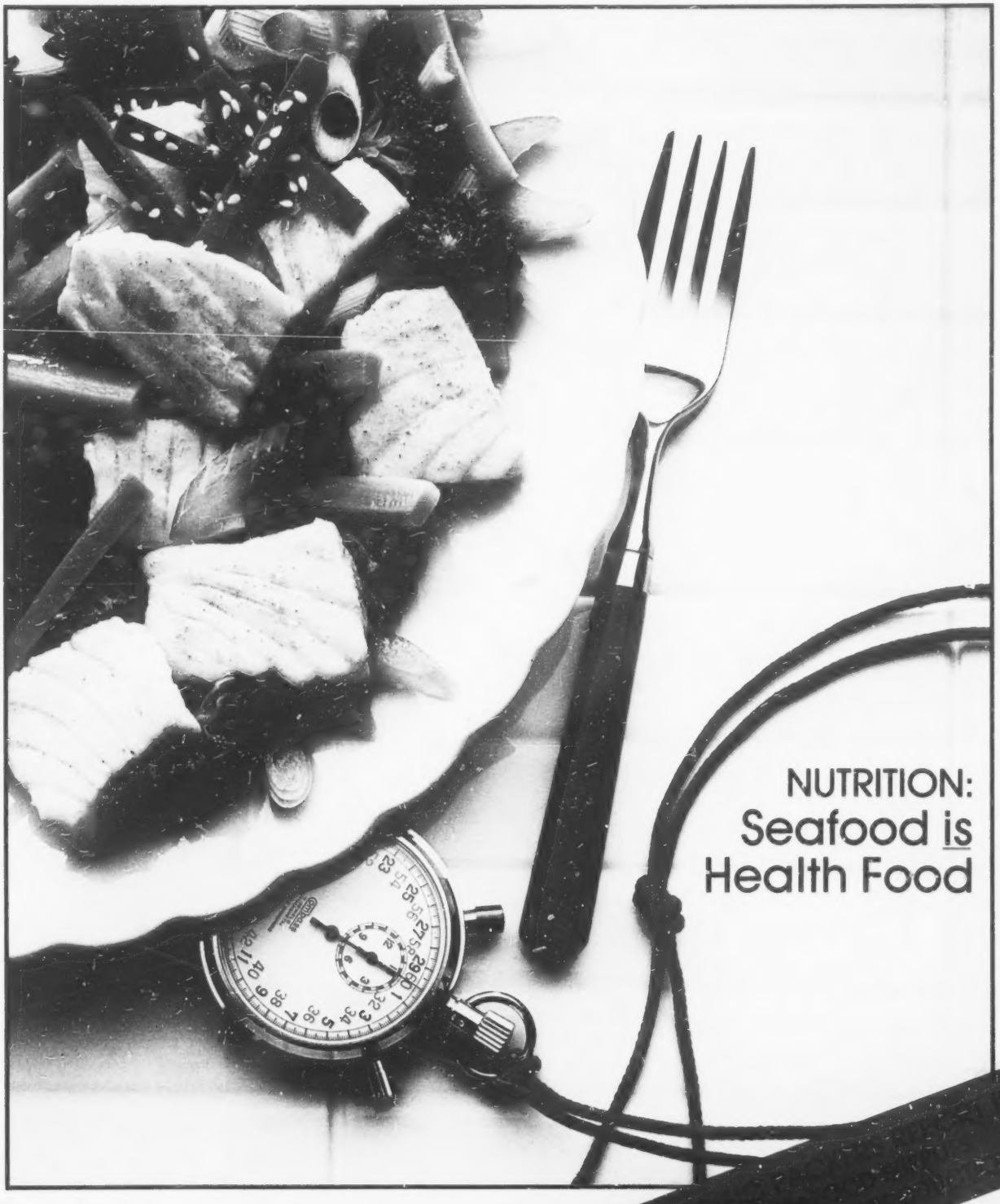
Seafood Business Report

SPRING 1984 VOLUME 3, NUMBER 2

MARKETING: New Quality in Frozen Seafood
FOODSERVICE: Seafood Broiler's Winning Combination
PROFILE: Retailer Frank Morello **DISTRIBUTION:** Flying Foods' Luxury Imports



NUTRITION: Seafood is Health Food

INSIDE Seafood Business Report

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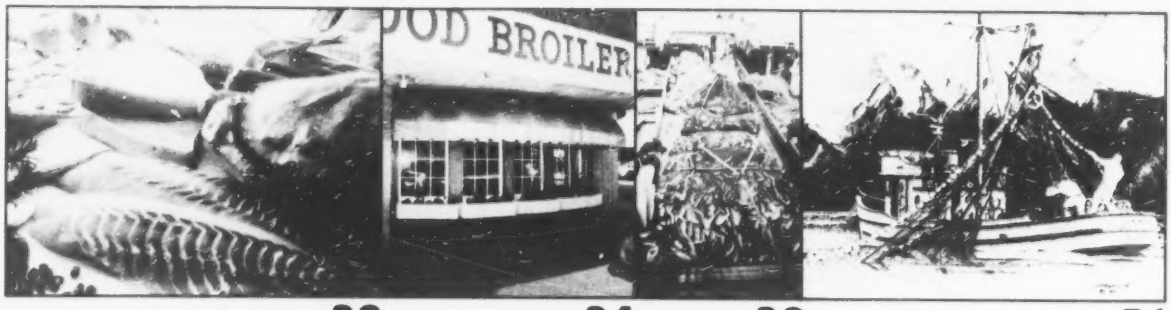

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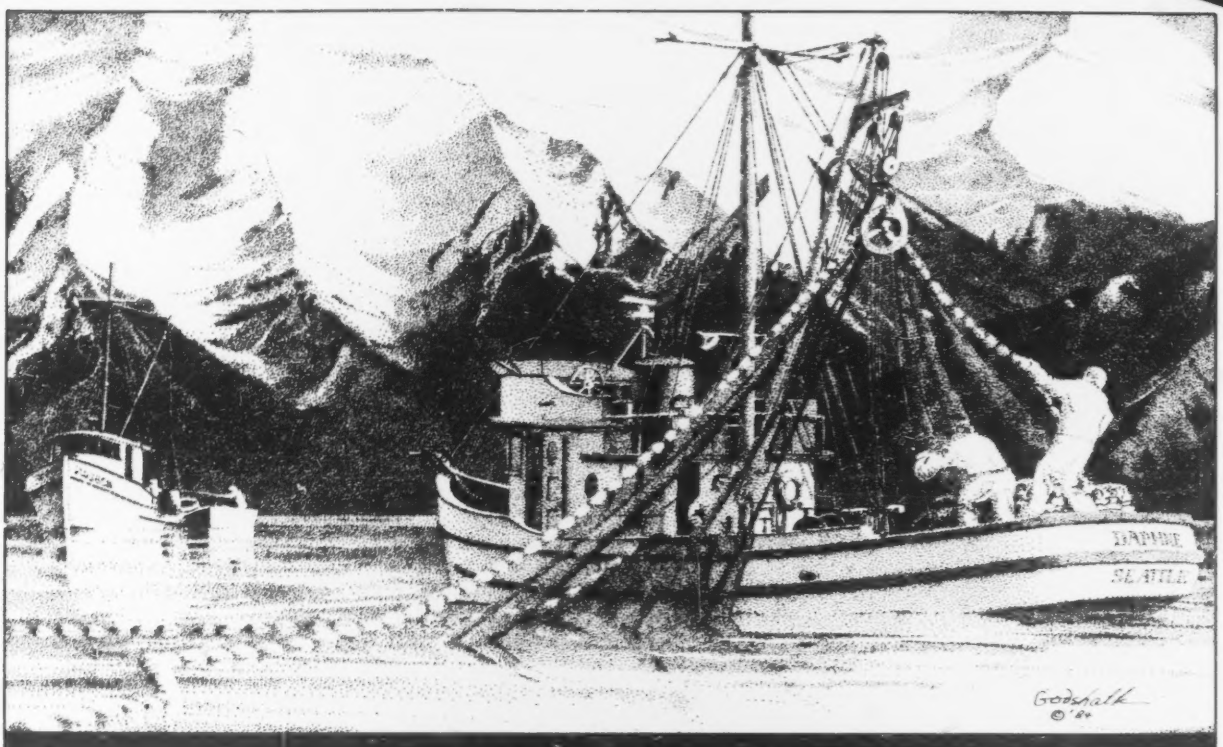
COVER: Alaska Halibut Saute gives delicious substance to the idea of seafood as health food. See story, page 28. The dish provides 25 grams of protein, but only 12 grams of fat and 252 calories. The recipe is included in the Alaska Seafood Marketing Institute's seafood fitness brochure, "The New Northern Lights." Photo by Aaron Jones • Lis DeMarco, courtesy of the Alaska Seafood Marketing Institute.



Pacific Packers Report

SALMON:

Record Harvest Provides Marketing Challenge

With a harvest of more than 130 million salmon in 1983, the industry again faces the challenge of moving large quantities of both canned and frozen salmon in a soft market. Alaska led the way with a record commercial catch of 127 million fish, the largest harvest in history. Even though pink salmon catches in many central Alaskan areas were smaller than expected, the southeast Alaska and Bristol Bay sockeye runs exceeded all expectations. An estimated ex-vessel value of $144 million dollars for the year's Bristol Bay fisheries set an all-time record.

Alaska Department of Fish and Game biologists speculated that the mild winters and generally warmer sea water (the effect of El Nino), along with the state's successful salmon management program, were the major factors in the higher juvenile salmon survival rate which led to the record harvest. A moderate decline, to about 104 million fish, is predicted for this year's harvest, due to an anticipated drop in the Bristol Bay sockeye harvest from a record 37 million fish in 1983 to about 15 million in 1984.

• Although it is still a buyer's market, packers were generally satisfied with canned sales as the year ended. The product was moving reasonably well in both the foreign and domestic markets. The going price for tall reds was $100–$110 a case. Half-pound reds were selling at a wholesale price of $60 a case. The export market for frozen salmon was quiet at year's end, but wholesale prices were strengthening.

(continued on page 60)

1983 Pacific Canned Salmon Packs and Values

(48-LB. CASE EQUIVALENTS)

	RED		PINK		CHUM		COHO		KING		TOTAL	
	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)
Alaska	1,382,349	152,058,397	1,909,056	137,452,032	264,103	14,525,665	37,460	3,596,160	8,295	696,780	3,601,263	308,329,034
Washington	19,558	2,151,380	141,352	10,177,344	7,834	430,870	5,998	575,808	253	21,252	174,995	13,356,654
Total United States	1,401.907	154,209,777	2,050,408	147,629,376	271,937	14,956,535	43,458	4,171,968	8,548	718,032	3,776,258	321,685,688
British Columbia*	370,855	63,416,205	999,739	92,975,727	49,128	4,175,880	61,820	8,160,240	4,259	468,490	1,485,801	169,196,542
GRAND TOTAL	1,772,762	217,625,982	3,050,147	240,605,103	321,065	19,132,415	105,278	12,332,208	12,807	1,186,522	5,262,059	490,882,230

*Steelhead included in total. Value in Canadian funds.
Note: Data are preliminary. Values are estimated.
Source: National Food Processors Association, Marine Resources Branch, Province of B.C., and *Seafood Business Report*

1983 Western Alaska

(48-LB. CASE EQUIVALENTS)

COMPANY	LOCATION	RED 1 & 4 lb cans	RED ½ & ¼ lb cans	RED Total	PINK 1 & 4 lb cans	PINK ½ & ¼ lb cans	PINK Total
Bumble Bee Seafoods	S. Naknek	87,256	36,714	123,970			
Columbia Wards Fisheries	Bristol Bay	39,588	10,661	50,249			
	Ekuk	48,073	10,360	58,433			
	Total	87,661	21,021	108,682			
Nelbro Packing Co.	Naknek	47,173	35,532	82,705			
Ocean Beauty Alaska Inc.	Egegik	22,500	19,000	41,500			
Peter Pan Seafoods, Inc.	Dillingham	59,600	36,690	96,290			
Red Salmon Co.	Naknek	84,047	22,634	106,681			
Sea Alaska Products Inc.	S. Naknek	98,853	33,083	131,936	135		135
Whitney-Fidalgo Seafoods, Inc.	Naknek	43,440	38,962	82,402			
TOTAL	Western Alaska	530,530	243,636	774,166	135		135

1983 Central Alaska

COMPANY	LOCATION	RED 1 & 4 lb cans	RED ½ & ¼ lb cans	RED Total	PINK 1 & 4 lb cans	PINK ½ & ¼ lb cans	PINK Total
Blakes Fancy Smoked Salmon	Cordova						
Chugach Alaska Fisheries	Cordova		861	861	32,007	16,475	48,482
Columbia Wards Fisheries	Alitak	1,004	3,363	4,367	15,927	18,888	34,815
	Chignik	322	1,307	1,629	1,746	52	1,798
	Kenai	944	9,144	10,088	34	142	176
	Kodiak	768		768	7,247		7,247
	Port Bailey	314	449	763	6,539	8,401	14,940
	Total	3,352	14,263	17,615	31,493	27,483	58,976
Icicle Seafoods, Inc.	Seward	2,869	2,059	4,928	58,330	27,964	86,294
Kodiak King Crab, Inc.	Kodiak	27,500	4,000	31,500	50,500	6,500	57,000
Larsen Bay Seafoods, Inc.	Larsen Bay	25,506	6,175	31,681	24,254	6,485	30,739
Pan-Alaska Fisheries	Dutch Harbor	24,039	3,464	27,503	3,046	5,396	8,442
Peter Pan Seafoods, Inc.	King Cove	88,148	62,294	150,442	71,973	13,819	85,792
Sea Alaska Products Inc.	Chignik	39,447	4,048	43,495	21,181	6,357	27,538
	Cordova				24,003	9,417	33,420
	Total	39,447	4,048	43,495	45,184	15,774	60,958
St. Elias Ocean Products, Inc.	Cordova	1,000	250	1,250	64,500	21,500	86,000
Whitney-Fidalgo Seafoods, Inc.	Kodiak	21,302	1,114	22,416	11,823	2,835	14,658
	Port Graham	8,073	8,572	16,645	20,754	10,882	31,636
	Total	29,375	9,686	39,061	32,577	13,717	46,294
TOTAL	Central Alaska	241,236	107,100	348,336	413,864	155,113	568,977

1983 Southeast Alaska

COMPANY	LOCATION	RED 1 & 4 lb cans	RED ½ & ¼ lb cans	RED Total	PINK 1 & 4 lb cans	PINK ½ & ¼ lb cans	PINK Total
Annette Island Packing Co.	Metlakatla	3,370	461	3,831	147,726	32,540	180,266
Columbia Wards Fisheries	Craig Fish Camp	3,099		3,099	117,125		117,125
Excursion Inlet Packing Co.	Excursion Inlet		700	700	108,564	8,533	117,097
Icicle Seafoods, Inc.	Petersburg	1,069	617	1,686	255,036	60,162	315,198
Nelbro Packing Co.	Petersburg		1,933	1,933	3,124	41,669	44,793
Ocean Beauty Alaska Inc.	Ketchikan	2,000		2,000	80,000		80,000
Wards Cove Packing Co., Inc.	Ketchikan	214	323	537	113,735	11,303	125,038
Whitney-Fidalgo Seafoods, Inc.	Ketchikan	4,503	2,474	6,977	119,849	11,710	131,559
TOTAL	Southeast Alaska	14,255	6,508	20,763	945,159	165,917	1,111,076

Source: *Seafood Business Report*

Note: Totals do not include production from the following companies:
Western: Bering Sea Fisheries, Queen Fisheries, Togiak Fisheries;
Central: Kenai Packers, Morpac, North Pacific Processors, Alaska Pacific Seafoods, Kodiak Alaska Seafoods.

Canned Salmon Pack

CHUM			COHO			KING				
1 & 4 lb cans	½ & ¼ lb cans	Total	1 & 4 lb cans	½ & ¼ lb cans	Total	1 & 4 lb cans	½ & ¼ lb cans	Total	TOTAL	COMPANY
1,000	128	1,128							125,098	Bumble Bee Seafoods
952	55	1,007				86	32	118	51,347	Columbia Wards Fisheries
6,060	710	6,770	21	37	58	546	102	648	65,909	
7,012	765	7,777	21	37	58	632	134	766	117,283	
92	649	741				60	176	236	83,682	Nelbro Packing Co.
2,000		2,000							43,500	Ocean Beauty Alaska Inc.
8,928	659	9,587				1,777	38	1,815	107,692	Peter Pan Seafoods Inc.
1,860	108	1,968	105		105	128	48	176	108,930	Red Salmon Co.
1,996	84	2,080							134,151	Sea Alaska Products Inc.
551	57	608					151	151	83,161	Whitney-Fidalgo Seafoods, Inc.
23,439	2,450	25,889	126	37	163	2,597	547	3,144	803,497	TOTAL

Canned Salmon Pack

CHUM			COHO			KING				
1 & 4 lb cans	½ & ¼ lb cans	Total	1 & 4 lb cans	½ & ¼ lb cans	Total	1 & 4 lb cans	½ & ¼ lb cans	Total	TOTAL	COMPANY
							66	66	66	Blakes Fancy Smoked Salmon
8,172	500	8,672	665	3	668				58,683	Chugach Alaska Fisheries
2,821	96	2,917	179	34	213				42,312	Columbia Wards Fisheries
635	16	651	172	26	198	3	18	21	4,297	
2,543	2,324	4,867	681	722	1,403				16,534	
3,610		3,610	240		240	8		8	11,873	
3,555	2,239	5,794	157	234	391	6	7	13	21,901	
13,164	4,675	17,839	1,429	1,016	2,445	17	25	42	96,917	
4,853		4,853	81	1,599	1,680				97,755	Icicle Seafoods Inc.
14,500		14,500	1,000		1,000				104,000	Kodiak King Crab Inc.
7,805	2,320	10,125	831	154	985	40	15	55	73,585	Larsen Bay Seafoods, Inc.
3,782	61	3,843	482	3	485	101	1	102	40,376	Pan-Alaska Fisheries
56,762	17,009	73,771	3,791	2,298	6,089	800		800	316,894	Peter Pan Seafoods, Inc.
20,025		20,025	2,552	169	2,721	432	34	466	94,245	Sea Alaska Products Inc.
3,380	166	3,546	217	42	259				37,225	
23,405	166	23,571	2,769	211	2,980	432	34	466	131,470	
3,000		3,000	500	250	750				91,000	St. Elias Ocean Products Inc.
3,049	180	3,229	350	142	492				40,795	Whitney-Fidalgo Seafoods, Inc.
2,598		2,598	77	14	91				50,970	
5,647	180	5,827	427	156	583				91,765	
141,090	24,911	166,001	11,975	5,690	17,665	1,390	141	1,531	1,102,511	TOTAL

Canned Salmon Pack

CHUM			COHO			KING				
1 & 4 lb cans	½ & ¼ lb cans	Total	1 & 4 lb cans	½ & ¼ lb cans	Total	1 & 4 lb cans	½ & ¼ lb cans	Total	TOTAL	COMPANY
2,294	613	2,907	1,839	937	2,776				189,780	Annette Island Packing Co.
1,835		1,835	994		994				123,053	Columbia Wards Fisheries
									117,797	Excursion Inlet Packing Co.
2,589	256	2,845	930	2,412	3,342				323,071	Icicle Seafoods, Inc.
169	1,237	1,406	163	1,477	1,640		10	10	49,782	Nelbro Packing Co.
2,000		2,000	1,500		1,500				85,500	Ocean Beauty Alaska Inc.
199	48	247	426	4	430				126,252	Wards Cove Packing Co., Inc.
3,719	759	4,478	2,426	1,017	3,443				146,457	Whitney-Fidalgo Seafoods, Inc.
12,805	2,913	15,718	8,278	5,847	14,125		10	10	1,161,692	TOTAL

Pacific Canned Salmon Packs and Values by State

(48-LB. CASE EQUIVALENTS)

	ALASKA		WASHINGTON		OREGON		U.S. TOTAL*		BRITISH COLUMBIA*		GRAND TOTAL		
YEAR	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	YEAR
1940	5,028,378	31,828,451	222,808	2,825,000	297,716	4,129,220	5,548,902	38,782,681	1,467,227	427,923	7,016,129	50,209,908	1940
1941	6,906,503	57,466,702	491,311	6,162,000	399,840	5,925,444	7,798,799	69,567,646	2,248,870	18,406,545	10,047,649	87,974,191	1941
1942	5,089,109	48,677,509	366,065	6,909,000	397,331	6,890,162	5,852,515	62,476,671	1,811,560	20,050,238	7,664,075	82,526,909	1942
1943	5,396,509	58,579,194	149,175	2,309,000	130,707	2,857,246	5,677,158	63,761,440	1,258,221	11,673,469	6,935,379	75,434,909	1943
1944	4,877,796	51,608,544	81,490	1,774,000	159,783	3,445,244	5,119,943	56,843,448	1,097,558	11,479,093	6,652,646	68,322,541	1944
1945	4,338,692	44,528,964	414,258	4,845,000	155,292	3,287,812	4,913,335	52,699,776	1,739,311	18,409,962	6,217,521	71,109,738	1945
1946	3,971,109	58,667,561	385,437	13,020,000	206,563	7,165,645	5,568,149	79,006,206	1,348,138	17,532,462	5,916,287	96,538,668	1946
1947	4,302,466	91,297,885	957,429	21,420,000	338,852	11,133,690	5,612,644	124,364,575	1,505,157	24,900,000	7,117,379	149,264,575	1947
1948	4,010,612	100,694,614	484,102	12,685,858	314,556	10,956,513	4,820,687	124,703,080	1,308,137	26,579,000	6,128,824	151,282,080	1948
1949	4,391,051	81,262,468	973,740	17,481,782	158,472	4,665,290	5,524,376	103,430,780	1,436,464	27,654,489	6,960,840	131,085,269	1949
1950	3,272,643	81,403,511	670,341	18,285,000	176,063	6,193,000	4,119,047	105,881,511	1,482,560	30,155,177	5,602,056	183,885,502	1950
1951	3,534,315	77,201,463	906,252	21,357,974	175,091	6,631,198	4,615,658	105,190,635	1,955,475	46,261,080	6,571,133	151,451,715	1951
1952	3,574,191	76,357,016	749,591	17,122,352	140,565	4,784,421	4,455,022	99,636,808	1,293,435	27,751,435	5,741,490	127,388,243	1952
1953	2,934,667	60,987,334	838,422	18,680,750	127,808	4,063,675	3,911,333	83,747,184	1,821,269	35,060,600	5,732,602	118,807,784	1953
1954	3,207,154	66,139,617	973,941	25,727,689	92,291	3,130,700	4,275,548	95,063,437	1,742,736	39,293,176	6,018,284	134,356,613	1954
1955	2,457,969	58,839,784	764,719	17,569,902	138,250	4,996,355	3,286,785	81,436,652	1,406,100	31,644,673	4,692,885	113,081,325	1955
1956	2,950,354	76,948,880	334,505	11,097,115	147,105	5,401,329	3,432,658	93,472,448	1,118,279	32,231,241	4,550,937	125,703,989	1956
1957	2,442,710	62,564,386	624,842	18,296,970	118,161	4,948,224	3,187,887	85,887,711	1,424,264	35,872,414	4,612,151	207,647,836	1957
1958	2,974,993	65,531,283	625,909	20,659,030	134,754	6,053,733	3,736,661	92,290,276	1,908,056	56,740,772	5,644,717	149,031,048	1958
1959	1,770,795	49,493,910	585,487	18,118,907	101,712	4,239,463	2,457,994	71,852,280	1,077,097	35,280,411	3,535,091	107,132,691	1959
1960	2,571,265	73,055,345	201,398	8,695,057	61,799	2,966,921	2,834,462	84,717,323	631,150	22,768,000	3,465,612	107,485,323	1960
1961	3,211,962	99,352,358	401,121	14,580,389	83,643	4,077,528	3,696,726	118,010,275	1,403,994	45,778,726	5,100,720	163,789,001	1961
1962	3,475,196	93,710,090	246,658	8,759,840	79,260	3,561,098	3,801,114	106,031,028	1,816,585	52,751,840	5,617,699	158,732,868	1962
1963	2,650,199	67,109,620	569,579	17,382,900	69,799	3,145,849	3,289,577	87,638,369	1,203,271	34,613,527	4,492,848	122,251,896	1963
1964	3,549,379	87,530,030	130,329	4,755,873	79,603	3,480,322	3,759,311	95,766,225	1,255,308	43,676,000	5,014,619	139,442,225	1964
1965	3,310,064	106,041,505	248,882	9,915,359	113,489	4,975,716	3,672,435	120,932,580	913,957	35,060,000	4,586,392	155,992,580	1965
1966	3,976,957	119,048,988	274,363	11,409,197	92,727	4,119,485	4,344,047	134,577,670	1,819,215	64,061,552	6,163,262	198,639,222	1966
1967	1,464,006	52,081,517	485,051	18,631,135	123,213	5,408,690	2,072,270	76,121,342	1,465,708	57,141,000	3,537,978	133,262,342	1967
1968	3,168,127	103,411,623	140,368	6,100,705	48,644	2,205,942	3,357,139	111,718,270	1,746,457	65,481,973	5,103,596	177,300,243	1968
1969	2,252,022	84,676,144	203,422	9,452,463	64,306	3,096,920	2,519,750	97,225,527	624,153	30,110,000	3,143,903	127,335,527	1969
1970	3,564,508	124,577,532	189,383	10,323,798	58,268	3,330,040	3,812,159	138,231,370	1,423,882	58,908,000	5,236,041	138,290,278	1970
1971	2,899,011	107,981,152	463,132	23,275,554	151,017	6,719,640	3,513,160	137,976,346	1,404,005	65,803,000	4,917,165	203,779,346	1971
1972	1,705,326	75,293,999	190,334	11,925,259	34,993	1,933,916	1,930,653	89,153,174	1,172,752	55,134,000	3,103,405	144,287,174	1972
1973	1,209,757	86,416,654	304,934	28,499,916	32,213	3,192,098	1,546,904	118,108,668	1,550,114	127,065,000	3,097,018	245,173,668	1973
1974	1,343,254	98,860,487	578,009	45,250,006	56,331	4,603,068	1,977,594	148,713,561	1,428,882	114,312,000	3,406,476	263,025,561	1974
1975	1,383,900	95,423,802	162,204	14,293,000	9,126	697,000	1,555,230	110,413,802	517,370	43,252,000	2,072,600	153,665,802	1975
1976	2,469,530	178,284,574	135,518	13,946,000	5,850	627,000	2,610,898	192,857,574	1,025,830	91,733,000	3,636,728	284,590,574	1976
1977	2,594,659	188,834,352	230,905	20,646,000	1,554	228,000	2,827,118	209,708,352	1,346,967	122,987,000	4,174,085	332,695,352	1977
1978	2,921,565	211,357,826	11,292	913,000	2,394	380,000	2,935,251	212,650,826	1,126,876	115,913,000	4,062,127	328,563,826	1978
1979	3,048,800	253,068,900	144,041	15,765,476	170	25,075	3,193,011	268,859,451	955,225	115,927,000	4,148,236	384,786,451	1979
1980	4,131,800	370,642,100	26,053	5,119,000	263	30,000	4,158,116	375,791,100	1,114,426	146,828,000	5,272,542	522,619,000	1980
1981	4,431,925	405,322,000	202,732	17,336,000			4,634,657	422,658,000	1,800,545	237,391,000	6,435,202	660,049,000	1981
1982	2,434,700	190,559,000	71,697	8,406,000	390	48,000	2,506,787	199,013,000	815,464	133,892,471	3,322,251	332,905,471	1982
1983	3,601,263	308,329,034	174,995	13,356,654			3,776,258	321,685,688	1,485,801	169,196,542	5,262,059	490,882,230	1983

*1941-1958 totals include small California pack. •Steelhead included. Value in Canadian funds. Note: 1983 data are preliminary.

Source: State and provincial fisheries agencies, National Food Processors Association, *Seafood Business Report*

SALMON TERMINALS

announces

A NEW WAREHOUSE

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Circle number 114 on the Reader Inquiry Card

1983 Fresh and Frozen Salmon and Salmon Roe

(TROLL: DRESSED POUNDS; NET: WHOLE POUNDS; ROE: FINISHED POUNDS)

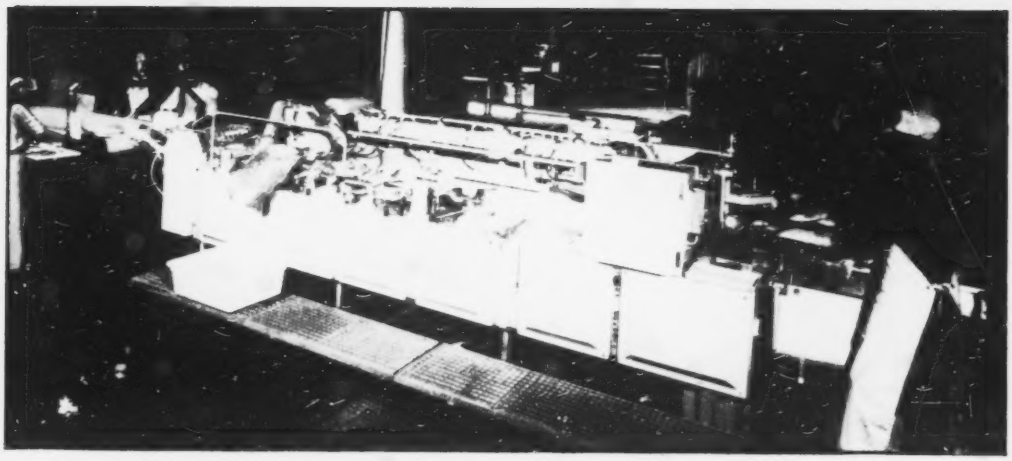
COMPANY AND LOCATION	TROLL CAUGHT SALMON, SOLD Frozen	TROLL CAUGHT SALMON, SOLD Fresh	NET SALMON, SOLD Frozen	NET SALMON, SOLD Fresh	TOTAL SALMON	SALMON ROE
ALASKA						
Alaska Far East Corp., *Naknek*			2,700,000		2,700,000	65,000
Alaska Fresh Seafoods, *Kodiak*			602,174		602,174	
Alaska Future Seafoods, *Yakutat*		55,316		231,768*	287,084	13,807
Alaska Seafoods, *Yakutat*		180,000		350,000	530,000	31,500
American Salmon Co., *Anchorage*			3,600,000*	600,000*	4,200,000	93,000
Annette Island Packing Co., *Metlakatla*	398,260		1,593,322		1,991,582	366,000
Bumble Seafoods, *S. Naknek*			1,580,545		1,580,545	219,424
Chugach Alaska Fisheries Inc., *Cordova*			1,525,160	205,517	1,730,677	254,151
Columbia Wards Fisheries, *Alitak*			1,333,657		1,333,657	
Ekuk			2,258,127		2,258,127	
Kenai			5,161,584		5,161,584	
Port Bailey			1,975,121		1,975,121	
Total			10,728,489		10,728,489	
Excursion Inlet Packing Co.,						
Excursion Inlet	1,195,358		3,818,114		5,013,472	
Icicle Seafoods, Inc., *Homer*			7,004,771	208,130	7,212,901	387,079
Petersburg	973,477	75,330	8,163,927		9,212,734	1,213,853
Seward			3,341,025	326,412	3,667,437	582,176
P/V Arctic Star, Bering Star			16,255,865		16,255,865	539,334
Total	973,477	75,330	34,765,588	534,542	36,348,937	2,722,442
International Seafoods of Alaska, *Kodiak*			4,000,000		4,000,000	100,000
Juneau Cold Storage Co., Inc., *Juneau*	223,500	8,500	1,126,500	211,500	1,570,000	51,500
Keener Packing Co., Inc., Soldotna			806,354		806,354	
Kodiak King Crab, Inc., *Kodiak*			1,863,000	177,500	2,040,500	308,000
Nelbro Packing Co., *Naknek*			1,144,462		1,144,462	176,239
Petersburg				10,624	10,624	140,167
Total			1,144,462	10,624	1,155,086	316,406
Northern Products Corp., *all locations*	688,209	3,901	503,906		1,196,016	12,354
Northern Seafoods, Inc., *Anchorage*						330,690
Ocean Beauty Alaska, Inc., *Egegik*			789,000		789,000	109,000
Ketchikan	169,000	90,000	1,366,000	193,000	1,818,000	185,500
Total	169,000	90,000	2,155,000	193,000	2,607,000	294,500
Pan Alaska Fisheries, Inc., *Dutch Harbor,*			4,411,268		4,411,268	117,676
M/V Royal Sea, Royal Venture			4,309,030		4,309,030	100,852
Total			8,720,298		8,720,298	218,528
Pelican Seafoods, *Pelican*	1,532,670	2,089	4,312,074	34,219	5,881,052	23,850
Peter Pan Seafoods, Inc., *Dillingham*				254,927	254,927	242,881
King Cove			3,608,721		3,608,721	782,391
Port Moller			6,908,887		6,908,887	213,851
M/V Baranoff			1,807,011		1,807,011	36,228
M/V Courageous			1,498,377		1,498,377	31,020
Total			13,822,996	254,927	14,077,923	1,306,371
Red Salmon Co., *Naknek*			1,112,309		1,112,309	
Sea Alaska Products, Inc., *Chignik*			5,488,200		5,488,200	376,615
Cordova			565,246		565,246	148,724
floaters			6,972,652		6,972,652	239,459
Total			13,026,098		13,026,098	764,798
Seafood Producers Cooperative, *Sitka*	3,036,000	106,000	265,000	42,500	3,449,500	35,000
Seawest Industries, Inc., *all locations*			3,500,000	450,000	3,950,000	110,000
Silver Lining Seafoods, *Ketchikan*	10,000	100,000	500,000	750,000	1,360,000	25,000
Sitka Sound Seafoods, Inc., *Sitka*	2,827,531	325,115	793,750	103,000	4,049,396	175,000
St. Elias Ocean Products, *Cordova*			1,941,500	595,500	2,537,000	432,500
Trident Seafoods Corp., *all locations*			11,943,115		11,943,115	154,000
Universal Seafoods, Ltd., *Dutch Harbor*			468,514		468,514	
Ursin Seafoods, Inc., *Kodiak*			905,149		905,149	30,669
Western Alaska Fisheries, *Kodiak*			6,408,000		6,408,000	271,000
Whitney-Fidalgo Seafoods, Inc.,						
Anchorage			5,117,956	1,616,196	6,734,152	211,549
Ketchikan			10,683	141,930	152,613	328,861
Kodiak			20,786		20,786	46,618
Mokuhana			906,729		906,729	62,238
Yardarm Knot			5,395,730		5,395,730	
Total			11,451,884	1,758,126	13,210,010	649,266
Yakutat Seafoods, *Yakutat*	31,000	10,500	1,096,000	239,500	1,377,000	262,500
TOTAL ALASKA	**11,085,005**	**956,751**	**152,779,301**	**6,742,223**	**171,563,280**	**9,374,756**
BRITISH COLUMBIA						
Prince Rupert Fishermen's Cooperative,						
Association, *Prince Rupert*	3,183,586	51,542	5,693,160	504,244	9,432,532	57,023
Tonquin Enterprises Ltd., *Vancouver*	600,000	200,000	300,000	100,000	1,200,000	5,000
TOTAL BRITISH COLUMBIA	**3,783,586**	**251,542**	**5,993,160**	**604,244**	**10,632,532**	**62,023**
WASHINGTON						
Arrowac Fisheries, *Bellingham*			800,000	50,000	850,000	
Harbor Bell, Inc., *Bay Center*			30,194	8,820	39,014	2,926
Mutual Fish Co., Seattle		10,000	25,000	25,000	60,000	3,000
Seafarms Pacific, *Port Angeles*	55,000	48,000	700,000	650,000	1,453,000	42,000
Seattle Seafoods, Inc., *Seattle*			938,369		938,369	
Washington Fish & Oyster Co., *Seattle*			258,000	170,000	428,000	10,500
Whitney-Fidalgo Seafoods, Inc.,						
Anacortes			23,682	26,705	50,387	34,707
TOTAL WASHINGTON	**55,000**	**58,000**	**2,775,245**	**930,525**	**3,818,770**	**93,133**

COMPANY AND LOCATION	TROLL CAUGHT SALMON, SOLD Frozen	Fresh	NET SALMON, SOLD Frozen	Fresh	TOTAL SALMON	SALMON ROE
OREGON						
Bell Buoy Crab Co., *Seaside*	1,000	3,000	35,000	2,000	41,000	1,500
Oregon Aqua Foods, *Newport*		400,000•			400,000	14,000
TOTAL OREGON	1,000	403,000	35,000	2,000	441,000	15,500
CALIFORNIA						
Alioto-Lazio Fish, Co., *San Francisco*	10,000	30,000			40,000	
California Sunshine Fine Foods, Inc., *Sacramento*						5,000
Grader Fish Co., *Ft. Bragg*		76,080			76,080	
Long Beach Seafood Co., *Long Beach*	5,000	20,000	15,000	15,000	55,000	
Meredith Fish Co., *Sacramento*	500,000	100,000			600,000	
TOTAL CALIFORNIA	515,000	226,080	15,000	15,000	771,080	5,000

*Dressed •Ranched

Source: *Seafood Business Report*

State of the Art Processing



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Circle number 121 on the Reader Inquiry Card

1983 Alaska Salmon Landings

(THOUSANDS OF FISH)

MANAGEMENT AREA	KING	RED	COHO	PINK	CHUM	TOTAL
SOUTHEASTERN REGION						
Southern Southeast Gillnet						
Portland Canal	1.5	133.4	42.7	771.9	133.1	1,082.6
Prince of Wales Island	.5	48.6	60.9	203.3	19.7	333.0
Stikine River		.2	14.8	4.2	.7	19.9
Southern Districts Seine	11.1	735.9	284.4	29,200.0	348.8	30,580.2
Annette Island Trap & Gillnet	.3	26.7	14.1	1,012.6	19.3	1,073.0
Southern Districts Troll	91.7	4.3	158.1	254.0	10.5	518.6
Southern Southeast Total	105.1	949.1	575.0	31,446.0	532.1	33,607.3
Northern Southeast Gillnet						
Taku-Snettisham	.9	30.9	23.8	63.7	15.3	134.6
Lynn Canal	1.7	370.6	68.2	159.2	340.8	940.5
Yakutat	.8	155.5	73.6	50.6	11.0	291.5
Northern Hatcheries				114.1		114.1
Northern Districts Seine	.7	38.0	25.1	5,300.0	202.7	5,566.5
Northern Districts Troll	178.3	4.4	1,100.4	254.6	10.5	1,548.2
Northern Southeast Total	182.4	599.4	1,291.1	5,942.2	580.3	8,595.4
SOUTHEASTERN REGION TOTAL	287.5	1,548.5	1,866.1	37,388.2	1,112.4	42,202.7
CENTRAL REGION						
Cordova Area						
Bering River	.6	179.3	117.7	.9	4.6	303.1
Copper River	50.0	633.0	233.0	7.3	2.2	925.5
PWS Hatcheries				687.0		687.0
Coghill District	.6	38.2	.8	283.7	243.2	566.5
Unakwik		13.3		4.0	2.1	19.4
Eshamy		2.0		355.0	6.2	363.2
General Purse Seine	.4	38.5	9.7	12,711.5	789.8	13,549.9
PWS Total	1.0	92.0	10.5	14,041.2	1,041.3	15,186.0
Cordova Area Total	51.6	904.3	361.2	14,049.4	1,048.1	16,414.6
Cook Inlet Area	19.8	5,009.0	510.6	958.0	1,279.9	7,777.3
Kodiak Area	3.8	1,232.0	157.0	4,603.0	1,085.0	7,080.8
Chignik	5.4	1,807.0	56.2	321.1	160.1	2,349.8
South Peninsula	20.0	2,481.0	128.0	2,731.0	1,710.0	7,070.0
CENTRAL REGION TOTAL	100.6	11,433.3	1,213.0	22,662.5	5,283.1	40,692.5
WESTERN REGION						
Bristol Bay						
Naknek-Kvichak	10.0	21,314.0			326.0	21,650.0
Nushagak	139.0	5,296.0	81.0		586.0	6,102.0
Egegik	5.0	6,740.0	22.0		124.0	6,891.0
Ugashik	9.0	3,342.0	8.0		108.0	3,467.0
Togiak	38.0	584.0	6.0		323.0	951.0
Bristol Bay Total	201.0	37,276.0	117.0		1,467.0	39,061.0
North Peninsula & Aleutian Islands	28.0	2,012.0	74.0	5.0	347.0	2,466.0
Arctic-Yukon-Kuskokwim						
Kuskokwim	93.7	90.9	249.0	.4	306.6	740.6
Lower Yukon River	142.8		7.2		933.8	1,083.8
Upper Yukon River	5.1		6.2		268.7	280.0
Norton Sound	10.3		49.7	76.9	319.4	456.3
Kotzebue	.1			.1	175.8	176.0
Arctic-Yukon-Kuskokwim Total	252.0		90.9	312.1	77.4	2,004.3	2,736.7
WESTERN REGION TOTAL	481.0	39,378.9	503.1	82.4	3,818.3	44,263.7
ALASKA TOTAL	869.1	52,360.7	3,582.2	60,133.1	10,213.8	127,158.9

Note: Data are preliminary.
Source: ADF&G

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SALMON (cont. from page 51)

• On the domestic scene, the sale of fresh and frozen salmon has increased somewhat, particularly to restaurants. Supermarket sales have not shown any appreciable gain, but prices remain relatively stable. The lack of increased sales to supermarkets emphasizes the continuing problem of educating both the consumer and wholesale buyers to the advantages of fish as an alternative to beef and chicken on the American dinner table.

• The Japanese market for frozen will likely decline somewhat this year for several reasons. Japan, like the U.S., had a record fall salmon harvest. In addition, it had a year-end inventory of salmon estimated at 53,000 tons, plus a large carry-over from last year. The Japanese sockeye market is still glutted, which could mean a decline in the price the Japanese will pay for Bristol Bay reds this season.

Sales of salmon to the European market are expected to improve this year, reversing the downward trend of the last couple of years. Despite the growing production of farm-reared salmon from Norway, and the continuing unfavorable exchange rate, inventories are down and demand up for smoking-size troll kings and silvers.

• Total shipments of canned salmon through December 1983 were more than 2 million cases, up 12 percent from 1982. Total production of canned salmon by U.S. packers exceeded 3.7 million cases, an increase of 55 percent, with a carry-over from the previous year of 733,000 cases, leaving stocks of approximately 3 million cases at year's end. It is estimated that inventory levels will be similar to last year's 1.6 million cases when the Alaska fishing season begins this year.

On an annual basis, ending in October 1983, the retail price per pound

Alaska Canned Salmon Packs by

(48-LB CASE EQUIVALENTS)

	SOUTHEAST ALASKA							CENTRAL ALASKA							
YEAR	Pl	Red	Pink	Chum	Coho	King	Total Cases	Pl	Red	Pink	Chum	Coho	King	Total Cases	YEAR
1950	36	49,475	535,662	500,422	116,344	560	1,202,463	55	513,985	558,263	242,301	68,233	40,386	1,423,158	1950
1951	42	70,317	1,226,582	466,334	262,393	636	2,028,262	59	362,554	333,091	227,632	72,762	71,648	1,067,687	1951
1952	40	74,510	593,422	527,960	122,277	2,756	1,320,925	48	377,094	577,406	399,864	67,117	34,935	1,456,417	1952
1953	35	120,971	355,580	418,260	90,489	1,571	986,871	40	330,933	604,291	333,390	36,730	33,160	1,338,494	1953
1954	27	113,130	519,364	601,800	87,996	2,642	1,324,932	39	299,325	621,214	381,536	77,041	28,257	1,407,373	1954
1955	26	55,561	547,765	177,690	64,814	1,157	846,987	44	233,290	722,448	162,999	47,294	22,078	1,188,109	1955
1956	23	80,855	565,076	267,934	44,030	2,082	959,977	44	357,242	547,775	375,417	47,525	22,082	1,350,041	1956
1957	23	82,511	404,221	362,715	53,373	1,358	904,178	36	179,986	331,873	432,797	28,282	17,722	988,660	1957
1958	21	81,867	702,899	356,611	51,300	843	1,193,520	39	130,889	818,063	357,059	39,859	9,174	1,355,044	1958
1959	17	61,702	472,684	162,948	60,013	1,374	758,721	27	161,251	162,229	203,000	35,185	11,735	573,410	1959
1960	32	44,684	139,998	112,924	19,167	1,019	317,792	41	284,951	529,675	365,842	53,460	13,188	1,247,116	1960
1961	25	66,132	831,576	278,572	47,309	463	1,224,052	35	302,972	425,723	193,168	32,577	17,797	972,237	1961
1962	29	62,586	600,576	220,907	49,694	1,142	934,905	34	326,498	1,238,360	382,126	51,374	14,154	2,012,577	1962
1963	30	52,018	959,147	149,175	55,192	401	1,215,933	39	208,978	609,235	231,016	69,304	11,803	1,130,336	1963
1964	34	70,735	900,425	217,148	73,880	494	1,262,682	31	271,997	959,927	400,420	85,956	5,270	1,723,570	1964
1965	25	74,900	486,000	130,100	73,300	600	764,900	31	405,900	394,300	139,600	28,400	6,800	975,000	1965
1966	22	76,279	1,108,692	313,155	63,016	796	1,561,938	25	423,073	812,208	240,592	50,650	5,218	1,531,741	1966
1967	20	64,684	164,962	175,814	25,488	207	431,155	25	233,504	164,154	119,099	37,878	3,997	608,632	1967
1968	21	56,652	971,816	296,824	45,756	866	1,371,914	27	360,470	701,701	303,688	67,855	3,341	1,437,055	1968
1969	21	35,497	231,105	32,705	8,824	302	308,433	29	311,605	992,286	124,146	13,723	6,106	1,446,866	1969
1970	21	28,481	487,208	142,472	17,396	196	675,753	27	559,618	824,537	242,123	34,178	1,014	1,661,470	1970
1971	19	41,731	448,452	159,891	36,581	443	687,098	23	371,968	626,095	379,948	45,050	1,746	1,424,807	1971
1972	21	58,978	447,085	206,265	33,632	2,152	748,112	23	286,053	150,702	224,453	14,103	765	676,076	1972
1973	16	39,450	313,420	82,358	13,252	864	449,344	24	243,265	157,279	219,703	16,132	1,022	637,401	1973
1974	16	56,023	265,497	136,247	23,260	644	481,671	16	289,740	209,752	138,721	28,219	2,739	669,171	1974
1975	11	7,167	186,124	80,947	3,728	274	278,240	15	173,082	365,631	99,750	45,052	584	684,099	1975
1976	14	14,500	279,439	24,346	4,776	153	331,070	23	449,625	815,553	215,980	25,492	2,039	1,508,689	1976
1977	12	27,398	652,577	14,640	4,668	72	699,355	18	429,607	688,857	292,338	14,579	969	1,426,350	1977
1978	13	10,559	599,781	11,980	7,841	833	630,994	22	293,502	929,119	201,290	15,767	1,556	1,446,234	1978
1979	13	14,100	356,600	3,800	4,100	500	379,100	22	309,400	1,440,900	100,900	27,900	700	1,879,800	1979
1980	10	36,100	588,100	39,800	9,900	200	674,100	21	530,400	1,467,900	228,800	24,800	500	2,252,400	1980
1981	8	92,433	789,077	28,304	9,326	433	919,573	21	477,538	1,710,397	512,639	25,900	805	2,727,279	1981
1982	10	12,289	720,224	12,744	4,925	223	750,955	22	95,281	1,014,851	157,655	19,754	280	1,287,821	1982
1983	8	19,178	1,083,545	13,846	12,942	24	1,129,535	23	483,058	820,967	196,329	23,101	1,713	1,525,168	1983

*Number of plants

Source: National Food Processors Association (figures are compiled from the portion of the pack examined by NFPA)

1984 Alaska Salmon Harvest Forecasts

(THOUSANDS OF FISH)

MANAGEMENT AREA	RED	PINK	CHUM	COHO	KING	TOTAL
Southeastern	1,200	29,600	1,300	1,500	256	33,856
Central	9,915	31,438	3,463	910	56	45,782
Western	16,858	1,929	3,827	847	451	23,922
TOTAL ALASKA	27,973	62,967	8,590	3,267	763	103,560

Source: ADF&G

of canned salmon declined from $2.54 at the end of 1982 to $2.43 at the end of 1983. This 4.3 percent reduction in price was accompanied by an annual gain of 7 percent in poundage.

As of January 1, 1984, inventories and shipments by species and can size indicate that the supply of tall reds should be ample. The same cannot be said for other sizes. Half-pound reds are in short supply, with stocks of 435,642 cases. Current shipments average 128,465 cases a month, a rate that will see supplies depleted by June. Pink salmon, however, is readily available. This is good news because it is the species most commonly promoted for Lenten season sales.

- Cold storage holdings at the end of the year were generally less than 1982's large inventory. Chinook holdings at the end of November 1983 were 4,348,000 pounds, about half what they were in November 1982. The difference was even greater for coho; 7,340,000 pounds compared with 18,489,000 pounds from the previous year. Chum holdings increased, however, to 19,991,000 pounds, 1.5 million pounds over the previous year. Both pink and sockeye holdings were at approximately 7.4 million pounds at the end of 1983.

As the 1984 salmon season approaches, the industry again will face the problems of abundant inventories and low prices, combined with another predicted large harvest. The challenge is for the various segments of the industry to work more closely with one another for the common goal of improving the methods of harvesting, processing, and marketing their product in an efficient manner so as to make the salmon industry more profitable and more competitive with other food products in a changing world market.

Districts and Species

(48-LB CASE EQUIVALENTS)

WESTERN ALASKA									
PI	Red	Pink	Chum	Coho	King	Total Cases	PL*	TOTAL CASES	YEAR
21	509,048	1,609	35,056	6,924	13,375	647,012	112	3,272,643	1950
13	339,592	75	25,521	8,003	15,328	388,519	114	3,534,315	1951
21	729,560	1,339	38,836	7,692	19,359	796,786	109	3,574,191	1952
19	530,186	1,108	45,398	2,703	20,810	600,205	94	2,934,667	1953
12	393,201	9,835	42,890	6,228	22,695	474,849	78	3,207,154	1954
12	372,756	90	22,968	2,476	24,583	422,873	79	2,457,969	1955
11	577,461	3,198	31,683	4,385	22,889	639,616	78	2,950,354	1956
13	484,499	2	31,142	5,078	29,150	549,871	72	2,442,710	1957
17	269,159	60,817	42,563	12,966	40,924	426,429	71	2,974,993	1958
9	361,550	32	49,378	3,091	32,157	446,208	53	1,770,795	1959
35	854,807	12,055	103,569	3,073	32,853	1,006,357	108	2,571,265	1960
31	926,441	—	51,828	1,980	35,424	1,015,673	91	3,211,962	1961
32	361,226	39,553	88,687	5,252	32,996	527,714	95	3,475,196	1962
24	218,445	1,909	52,504	5,790	25,282	303,930	93	2,650,199	1963
22	372,928	67,879	85,301	5,024	31,995	563,127	87	3,549,379	1964
26	1,464,300	—	31,500	400	42,300	1,538,500	82	3,310,064	1965
22	737,948	95,071	31,658	3,251	28,818	896,746	69	3,990,425	1966
19	334,177	8	45,983	3,143	40,908	424,219	64	1,464,006	1967
18	209,694	73,004	32,972	4,318	39,170	359,158	66	3,168,127	1968
19	440,276	33	26,037	1,793	28,584	496,723	69	2,252,022	1969
19	1,117,372	16,787	65,351	1,804	25,971	1,227,285	67	3,564,508	1970
14	694,507	--	61,914	939	29,746	787,106	56	2,899,011	1971
17	197,495	5,002	60,005	1,552	17,084	281,138	67	1,705,326	1972
13	61,429	—	51,946	2,464	7,173	123,012	56	1,209,757	1973
7	87,723	39,550	44,587	7,615	12,937	192,412	39	1,343,254	1974
11	373,038	800	40,305	286	7,132	421,561	37	1,383,900	1975
18	431,376	42,242	127,134	2,600	34,275	637,627	55	2,477,386	1976
12	304,653	853	153,215	2,676	7,557	468,954	42	2,594,659	1977
15	579,001	162,775	86,969	2,974	12,618	844,337	50	2,921,565	1978
15	721,300	14,200	35,000	10,400	9,000	789,900	50	3,048,800	1979
14	821,000	201,400	164,000	11,200	7,400	1,205,000	45	4,131,800	1980
13	700,188	728	76,312	1,332	6,513	785,073	42	4,431,925	1981
13	195,755	75,862	21,880	7,997	2,271	303,765	45	2,342,541	1982
12	880,113	4,544	53,928	1,407	6,558	946,550	43	3,601,253	1983

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Pacific Salmon Landings — Commercial Fisheries

(THOUSANDS OF FISH)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alaska												
Chinook	553	550	558	455	532	463	800	810	670	817	862	869
Sockeye	6,590	4,490	4,878	7,455	11,783	11,908	17,773	28,366	33,210	36,367	28,513	53,360
Coho	1,831	1,457	1,861	1,014	1,432	1,319	2,295	3,053	3,070	3,417	5,838	3,579
Pink	15,920	9,802	9,859	12,984	24,750	25,880	51,492	48,549	63,446	58,165	64,129	60,050
Chum	7,065	6,020	4,729	4,322	5,924	6,835	6,335	5,780	9,887	12,659	10,740	10,213
TOTAL	**31,959**	**22,319**	**21,886**	**26,229**	**44,423**	**46,405**	**78,695**	**86,559**	**110,283**	**111,425**	**110,082**	**128,071**
British Columbia												
Chinook	1,550	1,425	1,467	1,413	1,541	1,497	1,367	1,334	1,242	1,133	1,258	N/A
Sockeye	3,573	7,600	7,225	2,272	4,812	6,348	7,209	5,693	3,130	8,441	10,079	
Coho	3,357	3,531	3,729	2,330	3,701	3,339	3,347	3,651	3,355	2,825	3,187	
Pink	14,217	6,510	7,374	4,634	10,346	10,358	10,487	11,826	8,178	18,086	2,677	
Chum	6,074	6,241	2,202	1,145	1,900	1,089	2,971	866	3,332	1,122	2,967	
TOTAL*	**28,790**	**25,317**	**22,003**	**11,803**	**22,310**	**22,483**	**25,390**	**23,378**	**19,249**	**31,621**	**20,168**	
Washington												
Chinook	473	663	372	588	554	573	470	378	379	431	454	283
Sockeye	1,161	2,687	2,511	1,691	1,334	1,869	1,394	1,690	548	1,328	2,867	401
Coho	779	1,126	1,275	1,175	900	1,062	985	952	1,649	1,250	1,682	976
Pink	—	2,363	—	1,330	—	2,034	—	3,933	2	4,136	1	1,948
Chum	894	607	463	215	823	471	1,290	126	948	542	1,064	443
TOTAL	**3,307**	**7,446**	**4,621**	**4,999**	**3,611**	**6,009**	**4,139**	**7,079**	**3,526**	**7,687**	**6,068**	**4,051**
Oregon												
Chinook	127	363	224	225	184	340	192	340	276	194	378	109
Coho	825	796	1,137	657	1,827	446	612	809	472	660	724	326
TOTAL	**952**	**1,159**	**1,361**	**882**	**2,011**	**786**	**804**	**1,149**	**748**	**854**	**1,102**	**435**
California												
Chinook	492	817	492	579	540	563	519	659	575	549	764	274
Coho	158	348	656	204	622	35	238	164	50	78	90	56
TOTAL	**650**	**1,165**	**1,148**	**783**	**1,162**	**598**	**757**	**823**	**625**	**627**	**854**	**330**

*Steelhead included
Note: 1983 data are preliminary.
Source: State and provincial fisheries agencies

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Percent Alaska Salmon Canned Versus Percent Fresh, Frozen and Cured

YEAR	RED		PINK		CHUM		COHO		KING		TOTAL		YEAR
	Canned	Frozen	Canned	Frozen	Canned	Frozen	Canned	Frozen	Canned	Frozen	Canned	Frozen	
1971	91.38	8.62	98.0	2.00	80.87	19.13	57.51	42.49	18.08	81.92	85.88	14.12	1971
1972	93.05	6.95	95.41	4.59	72.17	27.83	30.56	69.44	13.78	86.22	77.26	22.74	1972
1973	72.95	27.05	93.57	6.43	50.70	49.30	20.58	79.42	6.05	93.95	61.03	38.97	1973
1974	88.02	11.98	89.68	10.32	53.35	46.65	30.90	69.10	11.22	88.78	66.72	33.28	1974
1975	78.81	21.19	93.58	6.42	41.25	58.75	4.83	95.17	8.00	92.00	67.25	32.75	1975
1976	81.87	18.13	91.72	8.28	61.57	38.43	21.04	78.96	22.35	77.65	75.87	24.13	1976
1977	68.51	31.49	92.41	7.59	60.24	39.76	12.73	87.27	5.68	94.32	71.02	28.98	1977
1978	56.66	43.34	89.00	11.00	46.52	53.48	13.67	86.33	7.35	92.65	64.49	35.51	1978
1979	42.51	57.49	83.43	16.57	40.04	59.96	13.08	86.92	6.23	93.77	57.09	42.91	1979
1980	45.31	54.69	83.54	16.46	47.62	52.38	21.92	78.08	9.82	90.18	57.87	42.13	1980
1981	40.78	59.22	78.01	21.99	50.69	49.31	10.87	89.13	3.09	96.91	55.14	44.86	1981
1982	11.53	88.47	64.82	35.18	17.04	82.96	5.72	94.28	1.24	98.76	32.44	67.56	1982
1983	33.37	66.63	78.45	21.55	24.45	75.55	10.74	89.26	3.47	96.53	44.09	55.91	1983

Source: *Seafood Business Report*

1983 Washington Canned Salmon Pack

(48-LB. CASE EQUIVALENTS)

COMPANY	LOCATION	RED	PINK	CHUM	COHO	KING	TOTAL
Kirkland Custom Cannery	Kirkland	258		36	24	38	356
Seawest Industries, Inc.	Bellingham	250	20,600	500			21,350
Whitney-Fidalgo Seafoods, Inc.	Anacortes	26,921	156,181	2,905	3,409	76	189,492
TOTAL	Washington	27,429	176,781	3,441	3,433	114	211,198

Source: *Seafood Business Report*

British Columbia Canned Salmon Packs

(48-LB. CASES)

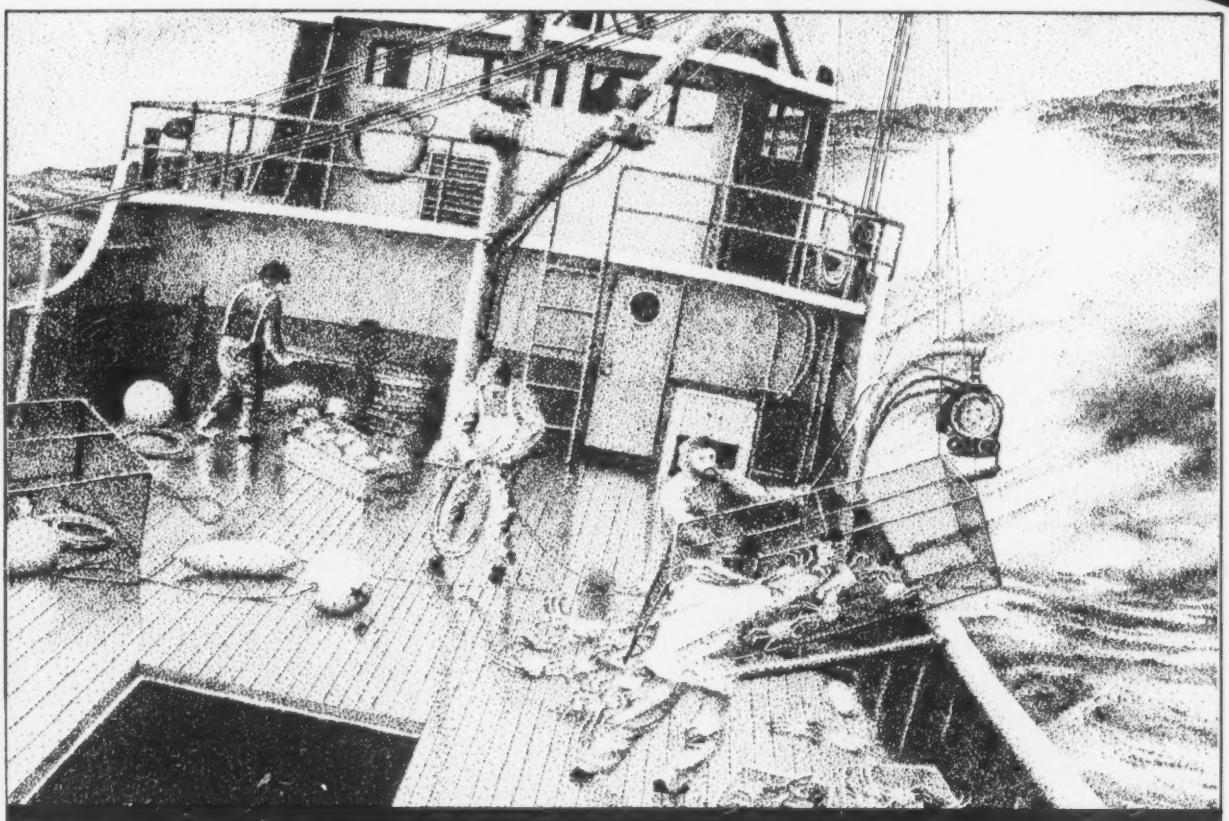
YEAR	SOCK-EYE	SPRINGS	COHO	PINK	CHUM	TOTAL* CASES
1950	403,041	9,133	116,642	446,516	498,984	1,482,560
1951	428,299	13,698	312,845	736,093	461,806	1,956,397
1952	449,174	9,064	64,095	675,836	91,514	1,293,435
1953	510,147	13,048	110,164	794,764	394,113	1,825,267
1954	680,718	14,080	128,080	335,550	580,574	1,742,736
1955	244,821	17,853	185,723	831,253	124,860	1,406,100
1956	404,392	11,671	217,915	363,633	203,710	1,202,575
1957	228,452	10,481	217,915	751,608	239,539	1,449,120
1958	1,079,155	10,475	132,403	455,518	229,292	1,908,056
1959	256,170	15,231	213,106	458,596	133,128	1,077,097
1960	226,844	5,916	91,504	219,564	86,818	631,150
1961	398,205	7,921	241,378	666,290	95,385	1,410,157
1962	297,716	7,174	187,735	1,188,661	134,483	1,816,584
1963	158,375	10,000	146,099	757,452	119,190	1,191,887
1964	343,358	9,127	204,732	464,107	232,722	1,255,308
1965	245,798	18,891	295,284	287,925	65,216	913,957
1966	407,949	14,585	281,623	951,794	160,784	1,819,215
1967	558,892	14,679	146,677	650,142	94,022	1,465,708
1968	611,011	7,416	187,594	669,347	270,688	1,746,989
1969	359,608	5,301	57,947	154,188	46,524	624,153
1970	395,606	10,024	114,555	660,777	242,389	1,423,882
1971	568,756	11,653	221,463	502,324	98,508	1,404,005
1972	312,907	11,608	83,755	485,164	278,451	1,172,752
1973	642,601	11,258	116,197	355,695	423,364	1,550,114
1974	709,180	20,268	160,051	307,192	230,634	1,428,882
1975	164,055	14,013	61,081	240,592	37,093	517,370
1976	376,047	11,187	69,850	483,054	85,540	1,025,830
1977	494,172	29,569	74,180	686,911	61,309	1,346,967
1978	485,748	8,916	53,960	456,058	121,487	1,126,876
1979	295,818	12,953	43,061	569,337	33,689	955,225
1980	368,844	6,768	88,217	456,363	170,346	1,104,774
1981	648,401	7,910	62,957	1,105,915	89,462	1,915,131
1982	551,145	5,754	45,774	138,648	73,759	815,464
1983	370,855	4,259	61,820	999,739	49,128	1,486,136

*Includes steelhead
Note: 1983 data are preliminary.
Source: Marine Resources Branch, Province of B.C.

B.C. Canned Salmon Export Prices

YEAR	SOCKEYE		PINK	
	½-lb. Flats 96's	¼-lb. Flats 96's	½-lb. Flats 96's	¼-lb. Flats 96's
1950	$ 33.00	$ 19.25	$ 19.00	$12.00
1951	28.00	21.50	20.50	12.75
1952	33.00	19.00	16.50	10.75
1953	30.00	17.50	16.50	10.75
1954	32.00	18.50	17.50	11.75
1955	37.00	21.50	19.50	12.75
1956	40.00	23.00	22.50	14.25
1957	40.00	23.00	22.50	14.25
1958	37.00	21.00	21.50	13.75
1959	46.00	27.00	24.50	16.25
1960	50.00	29.00	26.50	17.25
1961	44.00	26.00	26.50	17.27
1962	48.00	28.00	26.00	17.00
1963	50.00	30.00	23.50	15.00
1964	50.00	31.00	26.50	16.50
1965	50.00	29.00	30.00	18.00
1966	48.00	28.00	30.00	18.00
1967	48.00	28.00	31.00	18.00
1968	42.00-48.00	26.00	32.00	18.50
1969	55.00	31.00	38.00	22.00
1970	51.00	29.50	36.00	21.00
1971	54.00	32.00	36.00	21.00
1972	66.00	37.00	40.00	23.00
1973	100.00	56.00	72.00	40.00
1974	92.00	52.00	72.00	42.00
1975	110.00	60.00	72.00	40.00
1976	110.00	66.00	72.00	43.00
1977	114.00	66.00	74.00	47.00
1978	130.00	74.00	82.00	50.00
1979	156.00-160.00	92.00-96.00	96.00-102.00	58.00-62.00
1980	164.00	96.00	108.00	67.00
1981	170.00	100.00	112.00	68.00
1982	166.00	100.00	106.00	64.00
1983	158.00-164.00	92.00-96.00	78.00-84.00	52.00-56.00

Note: All figures are average opening prices subject to change FOB Vancouver, in Canadian Funds.
Source: Canadian Fishing Co.



Pacific Packers Report

SHELLFISH:

Crab Production, Prices Continue Decline

• Alaska's king and tanner crab production continued to decline during 1983. Despite reduced supplies, wholesale prices stayed at or below 1982 levels. Shrimp stocks virtually collapsed. Only the Dungeness crab fishery appeared healthy.

The Kodiak and Bristol Bay areas, once Alaska's major red king crab production areas, didn't open for fishing in 1983. Most of the 26 million pounds of king crab taken from Alaskan waters was divided between the northern Bering Sea blue king fisheries and the Aleutian chain brown king crab fishery.

Both areas are far from shore-based processing facilities, which meant that the bulk of Alaska's 1983 king crab production was processed by floating processors while shore-based plants sat idle.

The wholesale price for frozen sections remained at 1982's $7.80 to $9.30 a pound, and frozen meat prices held at $18 a pound, apparently the top prices the market will bear.

High cold storage holdings kept processors nervous, and several companies dropped out of the market. The

1983 Alaska Shellfish Landings by Area

(THOUSANDS OF POUNDS)

AREA	KING CRAB	DUNGENESS CRAB	TANNER CRAB	HAIR CRAB	TRAWL SHRIMP	POT SHRIMP	SCALLOPS	OCTOPUS	OTHER*
Southeast	752	4,709	170	—	2,103	253	1	—	49
Prince William Sound	137	378	990	—	423	178	—	—	125
Cook Inlet	192	743	3,819	—	1,618	90	—	26	270
Kodiak	113	4,758	18,863	—	2,772	18	147	3	8
Chignik	—	669	3,406	—	—	—	23	—	—
South Peninsula	—	525	2,855	—	—	—	—	2	—
Dutch Harbor	1,335	9	541	1	—	—	—	—	—
Adak/Western Aleutians	11,208	—	425	—	—	—	—	—	—
Bering Sea	11,669	—	30,012	886	—	—	—	1	—
TOTAL	25,406	11,791	61,081•	887	6,916	539	171	32	452

*Other distribution: Southeast — abalone; Prince William Sound, Cook Inlet, Kodiak — razor clams
•Includes 24,798,000 lbs. *opilio*
Note: Data are preliminary. Source: ADF&G

1983 West Coast Frozen Shellfish

(WHOLE POUNDS, IN SHELL)

COMPANY AND LOCATION	KING CRAB	TANNER CRAB *BAIRDI*	TANNER CRAB *OPILIO*	DUNGENESS CRAB	SHRIMP	SCALLOPS	CLAMS	OYSTERS	MISC.	TOTAL
ALASKA										
Alaska Fresh Seafoods, Inc., *Kodiak*	178	854,238		715,609		80,232			9,246	1,659,503
Alaska Future Seafoods, *Yakutat*	147			32,598						32,745
Alaska Seafoods, *Yakutat*				40,000						40,000
Arctic Alaska Seafood, Inc., *floaters*	600,000	350,000	300,000							1,250,000
Columbia Wards Fisheries, *Kodiak*		490,210								490,210
Dutch Harbor Seafoods, Ltd.										
P/V Galaxy & Viceroy	1,295,759	855,256								2,151,015
Icicle Seafoods, Inc., *Homer*	41,174	1,469,128		872,569	777,100					3,159,971
Petersburg	563,847	18,249		303,778	15,890					901,764
Seward	20,429	674,506								694,935
P/V Arctic Star	2,660	1,350,030								1,352,690
Total	628,110	3,511,913		1,176,347	792,990					6,109,360
International Seafoods of Alaska, Inc., *Kodiak*		100,000								100,000
Juneau Cold Storage, Inc., *Juneau*	44,000			33,000						77,000
Kodiak King Crab, Inc., *Kodiak*		1,025,000		444,500	41,000	51,500				1,562,000
Pan Alaska Fisheries, Inc.,										
Dutch Harbor	1,380,812	1,334,144	6,710,893						414,797	9,840,646
Kodiak		1,306,277		384,277						1,690,554
M/V Royal Sea	3,907,098	89,443	638,238						2,756	4,637,535
M/V Royal Venture	1,781,513	642,204	1,901,865						131,436	4,457,018
Total	7,069,423	3,372,068	9,250,996	384,277					548,989	20,625,753
Pelican Seafoods, *Pelican*	84,005	1,538,664		646,079						2,268,748
Peter Pan Seafoods, Inc., *King Cove*	102,119	1,012,583		125,112						1,239,814
Sea Alaska Products, Inc.										
Chignik		1,730,000		109,800						1,839,800
floaters	2,369,653	1,478,821	4,470,177	448,427					47,324	8,814,402
Total	2,369,653	3,208,821	4,470,177	558,227					47,324	10,654,202
Seawest Industries, Inc., *all locations*	800,000	1,250,000	1,100,000	800,000						3,950,000
Silver Lining Seafoods, *Ketchikan*				10,000					75,000	85,000
Sitka Sound Seafoods, Inc., *Sitka*	295,667	17,650		570,019						883,336
St. Elias Ocean Products, Inc., *Cordova*	31,500	332,500		458,000			18,000			840,000
Trans-Pacific Seafoods, Inc., *P/V Pavlof & Pengwin*	1,500,000	400,000								1,900,000
Trident Seafoods Corp., *all locations*	1,030,423	1,066,193	935,320							3,031,936
Universal Seafoods, Ltd.										
custom processed	547,726	848,939	240,306							1,636,971
Dutch Harbor	120,515	716,878	1,459,945						5,356	2,302,694
Total	668,241	1,565,817	1,700,251						5,356	3,939,665
Ursin Seafoods, Inc., *Kodiak*	1,034,263	2,784,130		606,669			1,000			4,426,062
Western Alaska Fisheries, *Kodiak*		1,106,000		172,000						1,278,000
Whitney-Fidalgo Seafoods, Inc., *Kodiak*				19,864						19,864
Yakutat Seafoods, *Yakutat*	3,500	113,500		803,000						920,000
TOTAL ALASKA	17,556,988	24,954,543	17,756,744	7,595,301	833,990	131,732	19,000		685,915	69,534,213
BRITISH COLUMBIA										
Prince Rupert Fishermen's Cooperative Association, *Prince Rupert*	1,510	692		144,147					9,642	155,991
WASHINGTON										
Associated Seafoods Co., *Aberdeen*							150,000	6,000,000		6,150,000
Ellison Oyster Co., *Olympia*							949*	1,771*		2,720
Harbor Bell Inc., *Bay Center*				396,138	672,150					1,068,288
Harstine Oyster Co., *Shelton*								4,500*		4,500
Mutual Fish Co., Inc., *Seattle*	1,000			10,000	40,000	2,500	60,000	20,000		133,500
Sargent Oyster Co., *Allyn*								7,252*		7,252
Seafarms Pacific, *Port Angeles*							78,000	2,250,000		2,328,000
Seattle Seafoods, Inc., *Seattle*	409,430	307,899	715,364	3,680			129,000			1,565,373
Wiegardt Bros. Inc., *Ocean Park*								8,602,500		8,602,500
TOTAL WASHINGTON	410,430	307,899	715,364	409,818	712,150	2,500	417,949	16,886,023		19,862,133
OREGON										
Bell Buoy Crab Co., *Seaside*		2,000		416,069	3,500	4,000	60,000	4,000		489,569

(WHOLE POUNDS, IN SHELL)

COMPANY AND LOCATION	KING CRAB	TANNER CRAB *BAIRDI*	TANNER CRAB *OPILIO*	DUNGENESS CRAB	SHRIMP	SCALLOPS	CLAMS	OYSTERS	MISC.	TOTAL
CALIFORNIA										
Alioto-Lazio Fish Co., *San Francisco*				120,000			5,000			125,000
California Sunshine Fine Foods Inc., *Sacramento*									100,000	100,000
Grader Fish Co., *Ft. Bragg*				12,850						12,850
Long Beach Seafood Co., *Long Beach*	10,000	1,000	2,000	5,000	100,000	50,000	1,000•	2,000•		171,000
Meredith Fish Co., *Sacramento*				1,000,000	800,000					1,800,000
Neptune Seafood Co., *Los Angeles*					296,835	110,800				407,635
San Diego Fish Co., *San Diego*									50,000	50,000
TOTAL CALIFORNIA	10,000	1,000	2,000	1,137,850	1,196,835	160,800	6,000	2,000	150,000	2,666,485

*Gallons •Bushels

Source: *Seafood Business Report*

number of catcher-processors increased from 6 in 1982 to 13 in 1983 as vessel owners, seeking a higher return on their catches, installed freezing equipment on their vessels and marketed their own crab.

Further declines in Alaska's king crab production are expected in 1984. Surveys of the red king crab stocks indicate high numbers of barren females and unexplained declines in the numbers of young crab. In the blue king crab areas, biologists are seeing in all age groups the same high natural mortality that preceded the collapse of the red king crab stocks.

Condition of the deep-water brown king crab stocks is unknown. The Adak grounds appear to be producing at a slightly lower rate than in 1983, and efforts to locate new brown king crab grounds have failed.

• Imports of surimi-based crab are blamed by processors for reducing demand for Alaskan tanner crab.

"Imitation king crab is priced to compete with tanner crab," complained one processor.

Despite lower production than expected during 1983, cold storage holdings at the end of the year were slightly higher than at the end of 1982. Wholesale prices for frozen sections dropped, particularly for large sections, but the frozen meat market held steady.

Further reductions in supplies are expected in 1984. The Bering Sea's bairdi tanner crab stocks are still in decline, and the catch per pot has dropped to the point where few fishermen may find it profitable to fish for Bering Sea bairdi this year.

Stocks of the smaller opilio tanner crab appear to have stabilized, but the drop in ex-vessel price to 40 cents a pound has made fishermen reluctant to target on opilio.

Kodiak's tanner crab stocks accounted for half of 1983's 36-million-pound production in Alaska and are expected to produce 18 million pounds again this year, but there are signs that the stock may begin declining in 1985.

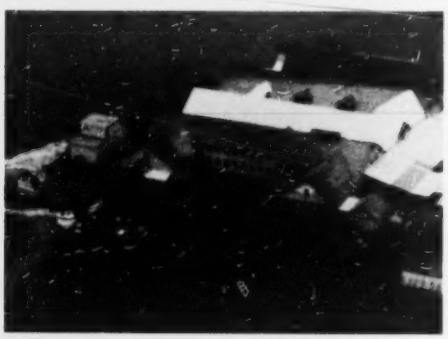
• The 1983–84 Dungeness crab fishery off Oregon, Washington, and California opened on a positive note with landings up slightly compared with the previous year's season. When ex-vessel prices climbed to $1.75, however, processors selling meat wholesale at about $9.75 were caught in a squeeze, meeting resistance to higher prices. One processor was selling live product as much as possible, because picking meat did not produce the needed extra value.

Data on Dungeness crab stocks suggests that Alaskan production has peaked, Oregon is on the downside of its production cycle, California has been slipping for two years, and Washington stocks should be recovering after two years of record-low production.

• The decline in pink shrimp stocks is expected to carry over into 1985, with small spawning populations, poor environmental conditions, and heavy predation from strong populations of Pacific whiting all taking their toll. Pacific Coast shrimp landings totaled 21.4 million pounds in 1983, down from 1982 landings of 45.8 million pounds.

— reported by
Chris Blackburn and Carmel Finley

ANNETTE ISLAND PACKING CO.



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Alaska Shellfish Landings

(THOUSAND POUNDS)

YEAR	KING CRAB	TANNER CRAB	DUNGENESS CRAB	SHRIMP
1963	78,740		12,084	15,126
1964	86,720	14	12,709	7,727
1965	131,671		8,895	16,819
1966	159,202		5,053	28,193
1967	127,716	118	11,598	41,812
1968	82,037	3,247	13,247	42,077
1969	57,730	11,206	11,304	47,851
1970	52,061	14,473	9,696	74,256
1971	70,703	12,880	3,749	94,891
1972	74,427	30,135	5,448	83,830
1973	76,824	61,719	6,423	119,964
1974	95,214	63,906	3,818	108,741
1975	97,629	46,857	3,034	98,984
1976	105,899	80,771	1,546	128,682
1977	99,600	98,500	1,160	117,000
1978	122,930	130,630	7,170	73,330
1979	149,660	130,589	6,334	50,613
1980	185,498	121,666	5,912	52,308
1981	88,054	107,474	14,901	27,672
1982	39,717	70,613	15,886	17,164
1983	25,406	61,081	11,791	7,455

Note: 1983 data are preliminary. Source: ADF&G

Pacific Coast Shrimp Landings

(POUNDS)

YEAR	ALASKA	BRITISH COLUMBIA	WASHINGTON	OREGON	CALIFORNIA	TOTAL
1963	15,126,950	1,788,000	956,105	3,114,700	2,095,278	23,081,033
1964	7,726,750	1,052,000	314,130	5,477,400	980,608	15,550,888
1965	16,818,941	1,755,000	23,468	1,748,000	1,425,875	21,771,284
1966	28,192,621	1,682,000	282,947	4,751,300	1,213,959	36,122,827
1967	41,812,552	1,696,000	1,028,744	10,373,956	1,404,821	56,316,073
1968	42,077,104	1,568,000	1,163,864	10,163,864	2,223,205	58,008,431
1969	47,850,560	2,118,700	1,425,286	10,477,945	2,951,800	64,824,255
1970	74,256,326	1,537,800	925,000	13,735,000	4,044,640	94,498,766
1971	94,891,304	735,000	678,000	9,291,000	3,074,000	108,669,304
1972	83,830,064	793,656	1,582,000	20,731,151	2,500,000	109,436,871
1973	119,963,729	1,728,406	5,271,000	24,517,194	1,239,976	152,720,305
1974	108,741,434	2,649,929	9,300,000	20,313,760	2,360,000	143,365,123
1975	98,535,031	1,728,406	10,200,000	24,083,568	4,997,000	139,544,005
1976	129,011,047	7,722,713	9,224,898	25,456,007	3,470,000	173,884,665
1977	116,871,605	6,175,084	11,400,000	48,580,070	15,663,451	198,690,210
1978	73,292,614	3,459,017	12,298,000	56,666,109	13,163,243	158,878,983
1979	50,613,000	1,578,493	12,135,000	29,586,586	4,922,917	98,835,996
1980	51,574,692	1,446,217	12,743,221	30,152,030	4,242,754	100,158,914
1981	27,972,242	2,070,119	10,055,343	25,923,589	4,098,013	70,119,306
1982	17,018,000	1,091,277	4,998,966	18,461,988	4,250,000	45,820,231
1983	7,455,000	765,508	5,656,059	6,547,073	1,000,000	21,426,640

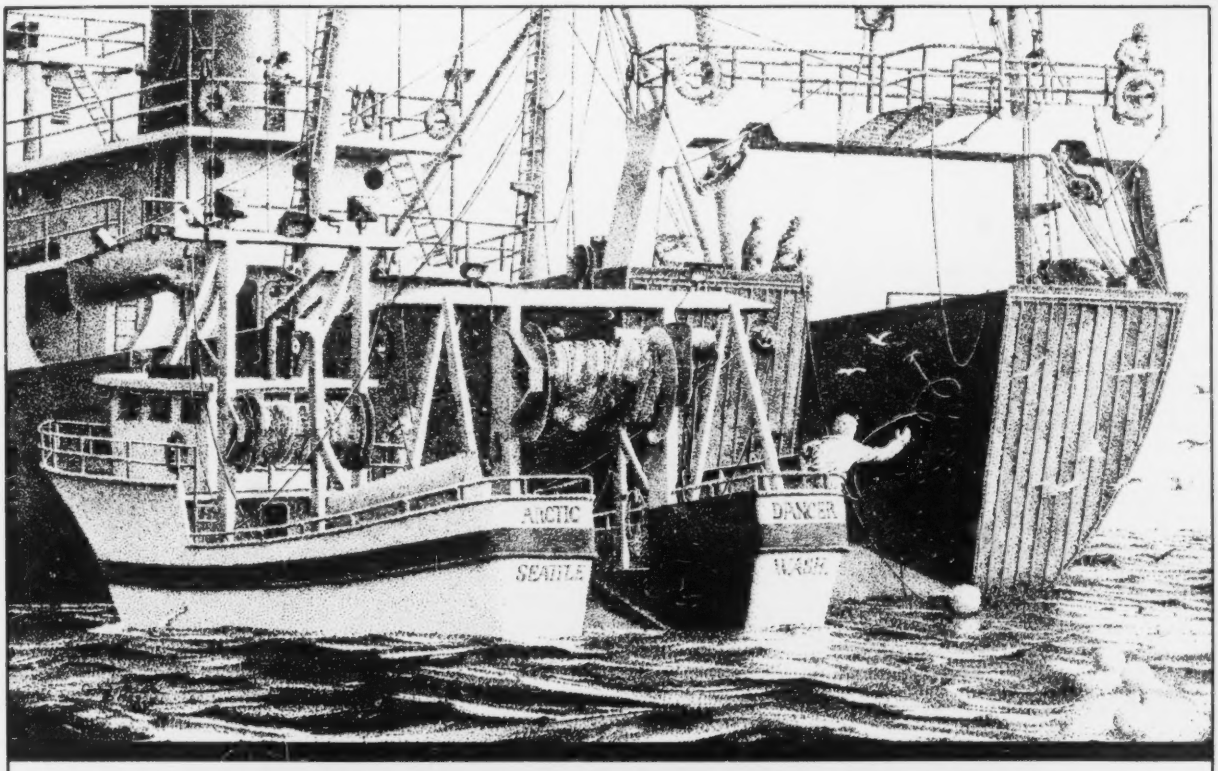
Note: 1983 data are preliminary.
Sources: State and provincial fisheries agencies

Pacific Coast Dungeness Crab Landings

(POUNDS)

SEASON	ALASKA*	BRITISH COLUMBIA*	WASHINGTON	OREGON	CALIFORNIA	TOTAL
1962-63	12,084,000	3,738,000	5,105,000	3,546,000	2,342,000	26,815,000
1963-64	12,708,000	4,302,000	5,043,000	3,540,000	1,998,000	27,591,000
1964-65	8,895,000	3,501,000	7,715,000	6,221,000	4,749,000	31,081,000
1965-66	5,053,000	4,538,000	11,649,000	10,187,000	10,419,000	41,846,000
1966-67	11,597,000	5,295,000	9,291,000	9,428,000	10,705,000	46,316,000
1967-68	13,242,000	4,373,000	11,736,000	10,215,000	13,158,000	52,724,000
1968-69	11,304,000	3,705,000	19,250,000	11,965,000	13,685,000	59,909,000
1969-70	9,697,000	2,548,000	18,675,000	13,849,000	15,564,000	60,333,000
1970-71	3,749,000	1,963,000	13,211,000	14,735,000	8,501,000	42,159,000
1971-72	5,448,000	1,975,321	10,095,000	6,780,000	2,875,000	27,213,321
1972-73	6,423,000	2,579,382	5,583,000	3,143,000	1,500,000	19,228,382
1973-74	3,818,000	2,502,221	4,604,000	3,462,000	880,000	15,266,221
1974-75	3,034,000	2,513,244	5,896,000	3,335,000	1,816,000	16,594,244
1975-76	1,523,000	2,193,577	9,885,000	9,099,000	17,410,000	40,110,577
1976-77	1,181,000	2,270,738	14,023,000	16,200,000	26,404,000	60,078,738
1977-78	7,215,000	2,592,609	9,237,000	12,501,274	13,900,000	45,445,883
1978-79	6,374,932	2,599,223	7,979,403	16,423,011	8,236,142	41,612,711
1979-80	5,905,290	3,750,024	6,546,544	18,278,981	13,700,000	48,180,839
1980-81	14,901,177	2,903,458	2,689,142	9,534,820	11,865,000	41,893,597
1981-82	15,815,000	3,386,266	2,564,632	8,751,206	10,500,000	41,017,104
1982-83	11,791,000	1,487,480	3,962,000	4,338,819	5,330,000	26,909,299

*Latest calendar year
Note: 1982-83 seasonal data are preliminary. Source: State and provincial fisheries agencies



Pacific Packers Report

BOTTOMFISH:

Marketing Problems Plague Rockfish Fishery

• Stringent trip limits on widows and *Sebastes* (rockfish), set by the Pacific Fishery Management Council last September, have resulted in severe marketing problems in the new year. Absence from the marketplace for almost four months meant a loss of shelf space and broker resistance to paying fishermen the 25 cents a pound they say they need to cover costs.

The PFMC is expected to reduce trip limits and frequencies in May, when most processors expect lower production to be filled in by fresh Canadian groundfish. Improved airfreight systems allow eastern Canada producers to fly fish into California markets at competitive prices.

West Coast processors who froze snapper in the last quarter of 1983 dumped the product at less than cost in January, and the retail price tumbled from $1.50 a pound to 90 cents almost overnight.

• With no improvement forecast for shrimp stocks, more shrimp boats have continued to enter the drag fishery, mainly for Dover sole, the last major West Coast fishery regulated by gear restrictions and not quotas. The harvest is expected to be similar to 1983 levels, about 20.5 million pounds. Boats would like to expand into deepwater prospecting, but if plants continue tight delivery limits, this won't happen.

• It will be a tight year for processors, who won't have the volume rockfish fishery to help them over decreased harvest levels of Dungeness crab, shrimp, and salmon. Snow Mist Seafoods closed its doors last May, and Newport Seafoods shut down its groundfish fillet line in July. Alioto closed the fillet line at its Fort Bragg Calif., plant.

Orca Pacific Products bought the Charter Oil plant in Charleston, Ore., and hopes to process squid and whiting, as well as traditional species.

A new company, Pacific Coast Seafoods, has reopened Snow Mist's Warrenton, Ore., plant and intends to process crab, shrimp, and bottomfish.

• There is strong interest in domestic utilization of whiting, with the Food and Drug Administration approving processing procedures for a canned hake product produced by Famfishco and Malabar Seafoods of Bodega Bay, Calif. The plant hopes to can 40 tons of hake a day, with a 40 percent recovery rate.

The Crescent City Harbor District is applying for a $600,000 state economic development grant to build a whiting processing plant. Castle Rock Seafoods, which would operate the plant, hopes to process 10 million pounds of headed and gutted whiting this year, destined for U.S. markets.

• The Kibun Co. of Washington has finished construction of a blended seafood product plant in Redmond, Wash., which will manufacture pollock-based, shellfish-flavored "Sea Stix" for institutional markets. Production should start shortly, using surimi imported from Japan.

• The International Pacific Halibut Commission has set the halibut quota at just over 43 million pounds for 1984. The Canadians have been allocated 9 million pounds and Oregon and Washington, 300,000 pounds, with the remainder coming from Alaska. The quota tops last year's by 12.4 million pounds, but landings

(Continued on page 77)

Pacific Bottomfish Landings

(THOUSANDS OF POUNDS)

	WASHINGTON			OREGON			CALIFORNIA			BRITISH COLUMBIA		
	1981	1982	1983	1981	1982	1983	1981	1982	1983	1981	1982	1983
Cod, Pacific	22,074	24,553	22,143	119	260	197				11,850	10,185	8,917
Dogfish	4,817	4,587	3,915	11	2	2				2,405	3,926	1,642
Flounder, arrowtooth	959	3,462	3,336	1,310	1,617	1,192	106	106	54	459•	359•	143•
Flounder, starry	1,530	1,513	1,131	889	480	433	6	2	8			
Halibut, Pacific	3,525	4,323	3,266	150	235	580				4,923	6,832	5,817
Lingcod	2,426	2,454	3,536	2,312	3,214	3,831	2,835	3,002	1,913	4,039	6,232	6,856
Pacific Ocean perch	1,494	689	981	3,190	5,508	4,845	22	55	115	N/A	N/A	N/A
Pollock	2,113	352	862							2,491	1,825	2,136
Rockfish, other	16,525	16,663	17,838	18,805	22,032	24,925	38,957	35,101	33,133	20,797†	22,786†	24,510†
Rockfish, widow	15,898	13,302	7,605	31,776	19,199	6,271	4,968	22,642	7,268	59		N/A
Sablefish	5,726	9,354	7,864	5,165	11,221	10,285	14,701	20,935	13,756	6,984	4,693	6,485
Skate	182	369	369	86	64	158	631	N/A	N/A	529	458	277
Sole, Dover	4,340	6,058	6,604	11,682	17,951	18,703	20,353	21,980	18,049	9,583*	6,190*	4,671*
Sole, English	1,966	2,340	2,290	1,611	2,187	2,019	3,767	3,178	2,510			
Sole, petrale	792	729	1,159	1,957	3,324	2,435	1,773	1,722	1,165			
Sole, rex	345	509	396	1,356	1,866	1,427	1,728	1,458	1,295			
Sole, rock	316	237	207	21	67	10	8	27	10			
Whiting	9,435	13,333	1,505	360	1	142	1,467	2,251	2,159	815	5,086	6,759

•Unspecified
†All rockfish
*All sole

Note: 1983 data are preliminary.
Source: State and provincial fisheries agencies, Pacific Fisheries Information Network

Alaska Bottomfish Catch

(METRIC TONS)

		GULF OF ALASKA		BERING SEA & ALEUTIANS		TOTAL	
		1982	1983	1982	1983	1982	1983
Pollock	Joint Venture	74,294.3	134,079.4	54,604.1	149,021.6	128,898.4	283,101.0
	Domestic Processors	2,237.2	112.8	115.3	877.6	2,452.5	990.4
	Foreign Catch	92,312.5	81,381.2	56,212.8	892,390.7	148,525.3	973,761.9
	Total	168,844.0	215,573.4	110,932.2	1,042,279.9	279,876.2	1,257,853.3
Sablefish	Joint Venture	1.0	278.6	124.2	114.3	125.2	392.9
	Domestic Processors	1,928.3	2,427.7	132.0	13.5	2,060.3	2,441.2
	Foreign Catch	5,597.7	5,039.9	3,633.0	3,206.7	9,230.7	8,246.6
	Total	7,527.0	7,746.2	3,889.2	3,334.5	11,416.2	11,080.7
Pacific Cod	Joint Venture	194.1	2,363.6	13,591.4	14,373.1	13,785.5	16,736.7
	Domestic Processors	6,433.4	4,086.4	20,597.0	35,221.2	27,040.4	39,307.6
	Foreign Catch	26,689.6	29,882.2	27,927.1	41,490.6	54,616.7	71,372.8
	Total	33,317.1	36,332.2	62,115.5	91,084.9	95,432.6	127,417.1
Flounder	Joint Venture	17.9	2,648.0	26,631.3	34,308.5	26,649.2	36,956.5
	Domestic Processors	162.5	169.9	4.8	1.7	167.3	171.6
	Foreign Catch	8,954.3	9,549.0	23,575.2	23,546.0	32,529.5	33,095.0
	Total	10,034.7	12,366.9	50,211.3	57,856.2	59,346.0	70,223.1
Pacific Ocean Perch	Joint Venture	3.0	1,977.6	28.5	140.2	31.5	2,117.8
	Domestic Processors	1.6	0.0	9.3	0.0	10.9	0.0
	Foreign Catch	7,893.9	5,431.3	2,307.6	965.7	10,201.5	6,397.0
	Total	7,898.5	7,408.9	2,345.4	1,105.9	10,243.9	8,514.8
Rockfish	Joint Venture	0.0	297.4	1.3	8.4	1.3	305.8
	Domestic Processors	257.1	349.0	2.7	7.8	259.8	356.8
	Foreign Catch	1,653.2	1,717.4	2,677.4	993.9	4,330.6	2,711.3
	Total	1,910.3	2,363.8	2,681.4	1,010.1	4,591.7	3,373.9
Atka Mackerel	Joint Venture	0.0	788.9	12,475.4	10,511.9	12,475.4	11,300.8
	Domestic Processors	0.0	0.0	0.0	0.0	0.0	0.0
	Foreign Catch	6,769.0	11,470.7	7,299.9	1,214.3	14,068.9	12,685.0
	Total	6,769.0	12,259.6	19,775.3	11,726.2	26,544.3	23,985.8
Other	Joint Venture	313.2	385.9	1,006.1	1,577.2	1,319.3	1,963.1
	Domestic Processors	109.0	76.5	0.0	3,307.0	109.0	3,383.5
	Foreign Catch	3,159.2	2,258.0	27,260.2	14,308.6	30,419.4	16,566.6
	Total	3,581.4	2,720.4	28,266.3	19,192.8	31,847.7	21,913.2
TOTAL	Joint Venture	74,823.5	142,819.4	108,462.3	210,055.2	183,285.8	352,874.6
	Domestic Processors	11,129.1	7,222.3	20,861.1	39,428.8	31,990.2	46,651.1
	Foreign Catch	153,029.4	146,729.7	1,185,607.2	978,106.5	1,338,636.6	1,124,836.2
	Total	238,982.0	296,771.4	1,314,930.6	1,227,590.5	1,553,912.6	1,524,361.9

Note: 1983 data are preliminary.
Source: ADF&G and NMFS

1983 West Coast Frozen Food Fish

(POUNDS)

COMPANY AND LOCATION	HALIBUT	BLACK COD	PACIFIC COD	ROCKFISH	FLATFISH	ROE HERRING	BAIT HERRING	POLLOCK	TOTAL
ALASKA									
Alaska Fresh Seafoods, Inc.,									
Kodiak	633,387		85,037				26,800		745,224
Alaska Seafoods, *Yakutat*	25,000								25,000
Annette Island Packing Co.,									
Metlakatla	265,301	9,000				1,001,468			1,275,769
Arctic Alaska Seafood, Inc.,									
F/T Northwest Enterprise			15,000,000						15,000,000
Columbia Wards Fisheries,									
Kenai	47,200								47,200
Kodiak	388,526								388,526
Total	435,726								435,726
Excursion Inlet Packing Co.,									
Excursion Inlet	1,235,685								1,235,685
Icicle Seafoods, Inc., *Homer*	1,860,644	79,315	49,805	3,805		207,420			2,200,989
Petersburg	1,920,726	388,595	5,941	9,324		3,380,000			5,704,586
Seward	3,251,341	528,804	13,026	12,801		666,000			4,471,972
P/V Arctic Star						3,509,308			3,509,308
P/V Bering Star						6,231,035			6,231,035
Total	7,032,711	996,714	68,772	25,930		13,993,763			22,117,890
International Seafoods of Alaska, Inc., *Kodiak*	300,000		200,000*			600,000		750,000*	1,850,000
Juneau Cold Storage Co., Inc.,									
Juneau	399,500	589,500		6,000		446,000			1,441,000
Kodiak King Crab, Inc., *Kodiak*	1,500,000				32,000	1,619,500			3,151,500
Marine Resources Inc.,									
Dutch Harbor			19,188,465		51,145,804			35,663,806	286,971,160*
Northern Products Corp.,									
all locations	356,752	52,032							408,784
Ocean Beauty Alaska, Inc./ Ketchikan Cold Storage,									
Ketchikan	158,000				180,000	653,500			991,500
Pan-Alaska Fisheries, Inc.									
Dutch Harbor	70,651	38,175		32,080	3,670		1,040,280		1,184,856
Pelican Seafoods,									
Pelican, Sand Point	1,378,153	596,761		29,705		973,832			2,978,451
Peter Pan Seafoods, Inc.,									
King Cove	588,354								588,354
Sea Alaska Products, Inc., *Chignik*	227,954								227,954
Cordova	4,067								4,067
floaters	118,741		3,550,000				1,021,580		4,690,321
Total	350,762		3,550,000				1,021,580		4,922,342
Seafood Producers Cooperative,									
Sitka	1,050,000	550,000		47,500		1,125,000	100,000		2,872,500
Seawest Industries, Inc.,									
all locations	200,000						40,000		240,000
Silver Lining Seafoods, *Ketchikan*	75,000	100,000		50,000					225,000
Sitka Sound Seafoods, Inc., *Sitka*	1,843,900	1,834,011	36,040	170,851		1,999,870	430,000		6,314,672
St. Elias Ocean Products, Inc.,									
Cordova	326,500		70,000			253,500			650,000
Trans-Pacific Seafoods, Inc.,									
P/V Arctic Trawler		300,000	20,000,000		100,000			1,000,000	21,400,000
Trident Seafoods Corporation,									
all locations			24,521,984			7,854,658	1,601,035		33,977,677
Universal Seafoods, Ltd.,									
Dutch Harbor	504,217		344,992			1,017,400	3,306,486		5,173,095
Ursin Seafoods, Inc., *Kodiak*	441,966					846,000			1,287,966
Western Alaska Fisheries,									
Kodiak	1,150,000	4,000	38,000			1,270,000	40,000		2,502,000
Whitney Fidalgo Seafoods, Inc.,									
Anchorage	276,799								276,799
Kodiak	53,728								53,728
Mokuhana						821,124			821,124
Yardarm Knot						4,238,418			4,238,418
Total	330,527					5,059,542			5,390,069
Yakutat Seafoods, *Yakutat*	127,000								127,000
TOTAL ALASKA	20,579,032	5,070,193	83,103,290	362,066	51,461,474	38,714,033	7,606,181	37,413,806	425,480,220*
BRITISH COLUMBIA									
Prince Rupert Fishermen's Cooperative Association,									
Prince Rupert	729,590	344,049	1,091,614	6,759,089	1,653,059	12,185,735	356,343	1,767,047	25,593,671*
WASHINGTON									
Arrowac Fisheries, *Bellingham*		8,200,000							8,200,000
Harbor Bell, Inc., *Bay Center*		16,045		75,145	33,001				124,191
Mutual Fish Co., *Seattle*	2,000	40,000		15,000	3,000	5,000	10,000		75,000
Northwest Fur Breeders Coop.,									
Edmonds					671,000				671,000
Seafarms Pacific, *Port Angeles*	840,000	1,100,000	200,000						2,140,000
Seattle Seafoods, Inc., *Seattle*	2,052,255								2,052,255
Washington Fish & Oyster Co.,									
Seattle	366,500	131,000		10,000					681,000*
TOTAL WASHINGTON	3,260,755	1,487,045	200,000	100,145	707,001	5,000	10,000		13,943,446

(POUNDS)

COMPANY AND LOCATION	HALIBUT	BLACK COD	PACIFIC COD	ROCKFISH	FLATFISH	ROE HERRING	BAIT HERRING	POLLOCK	TOTAL
CALIFORNIA									
Alioto-Lazio Fish Co., *San Francisco*	50,000	30,000		1,200,000†					1,280,000
Grader Fish Co., *Ft. Bragg*		104,000		100,000	70,000				274,000
Long Beach Seafood Co., *Long Beach*	1,500,000		1,000	5,000	2,000			500	1,508,500
Meredith Fish Co., *Sacramento*		300,000	2,000,000	1,000,000	2,000,000				5,300,000
San Diego Fish Co., *San Diego*				20,000					20,000
TOTAL CALIFORNIA	1,550,000	434,000	2,001,000	2,325,000	2,072,000			500	8,382,500
OREGON									
Bell Buoy Crab Co., *Seaside*	4,500	6,000		200					10,700

*Dressed •Includes miscellaneous †All groundfish

Source: *Seafood Business Report*

BOTTOMFISH (cont. from page 73) should only be up 12 percent, as last year's catch exceeded the quota. The openings have been shortened and spread throughout the summer more than in the past, which should make fresh halibut available for a longer time period. The first opening is April 24 for Canada. The Alaska opening begins May 21.

• Alaska joint venture landings will be the largest ever this year, the seventh joint venture season in those waters. Close to 1.3 billion pounds have been allocated, including 131 million pounds of Pacific cod and 985 million pounds of pollock. Countries included, and number of operations, are: Japan (five), Korea (eight), Taiwan (two), USSR (Marine Resources Corp.), West Germany (one), Spain (one), Norway (one), Poland (Mrs. Paul's), and Portugal (one).

Marine Resources Corp. continues to be the only joint venture on the lower Pacific Coast. It plans to take about 175 million pounds of Pacific whiting this summer. There are hopes Profish International will mount another joint venture fishery with a foreign country off the West Coast in 1985.

An amendment to the groundfish management plan that would have allowed foreign processors to operate south of the 39th parallel, near Point Arena, has foundered on opposition from California. Trawlers had hoped that opening those waters would mean a year-round joint venture, relieving pressure on traditional groundfish species. The battle continues in Washington, D.C.

• Production of whitefish by U.S. companies in Alaska increased sharply in the Bering Sea during 1983, but dropped off in the Kodiak area. Four major floating processor operations and Trident Seafoods' salt cod operation accounted for purchases of 37,394 metric tons of Bering Sea whitefish, mostly cod, which is three times the 13,324 metric tons bought by U.S. processors in 1982.

Trident Seafoods' Akutan plant was destroyed by fire in June and is in the process of being rebuilt. The floating processor *Golden Alaska* returned to Seattle in late 1983, and company officials announced the ship wouldn't be returning to Alaska.

Whitefish production is expected to increase in 1984. Universal Seafoods began buying cod in late 1983, and Royal Alaskan Seafoods, with the assistance of an Alaska Fisheries Development Foundation grant, is preparing to produce surimi from pollock.

• In the Kodiak area only 1,000 metric tons of whitefish were delivered to U.S. companies during 1983, just one-fourth of 1982's purchases. However, production is expected to jump sharply during 1984.

North Star Seafoods opened in December to process flatfish and expects to buy 1,000 metric tons a day by March. Coastal Fisheries of New Bedford, Mass., announced plans to open a plant in Kodiak to process flatfish.

Another half-dozen companies are in the process of ordering equipment to fillet cod or pollock later in 1984.

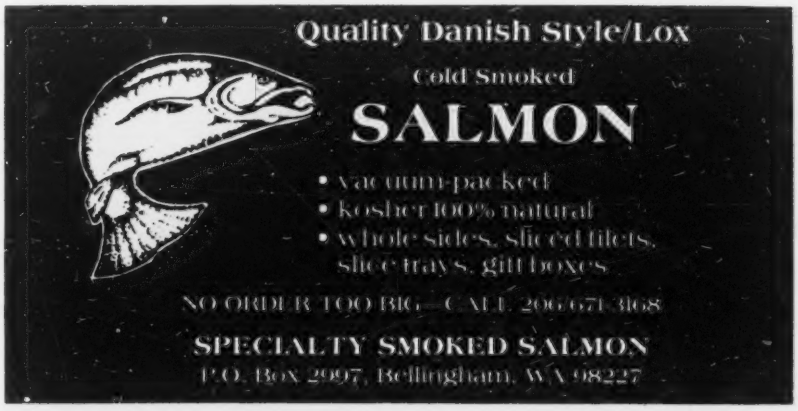
— reported by Carmel Finley and Chris Blackburn

Pacific Halibut Catch

(THOUSANDS OF POUNDS)

YEAR	U.S.	CANADA	TOTAL
1950	30,182	18,884	57,283
1951	35,058	21,020	56,078
1952	37,614	24,719	62,333
1953	34,127	25,738	59,865
1954	43,680	27,526	71,206
1955	36,962	22,148	59,110
1956	41,909	25,596	67,505
1957	36,641	24,714	61,355
1958	36,295	28,918	65,213
1959	40,821	30,894	71,715
1960	38,350	33,613	71,963
1961	40,065	29,466	69,531
1962	40,446	34,673	75,119
1963	34,290	37,133	71,432
1964	26,379	33,588	59,967
1965	30,486	32,987	63,473
1966	30,359	31,972	62,331
1967	29,948	25,669	55,658
1968	19,371	29,469	48,840
1969	25,008	33,597	58,605
1970	25,783	29,155	54,938
1971	21,158	25,496	46,654
1972	20,483	22,535	43,018
1973	17,290	14,410	31,700
1974	13,938	7,368	21,306
1975	16,259	11,357	27,616
1976	15,539	11,996	27,535
1977	13,101	8,767	21,868
1978	13,383	8,605	21,988
1979	15,868	6,659	22,527
1980	14,264	7,602	21,866
1981	20,078	5,654	25,732
1982	23,470	5,538	29,008
1983	33,044	5,419	38,463

Note: 1983 data are preliminary.
Source: International Pacific Halibut Commission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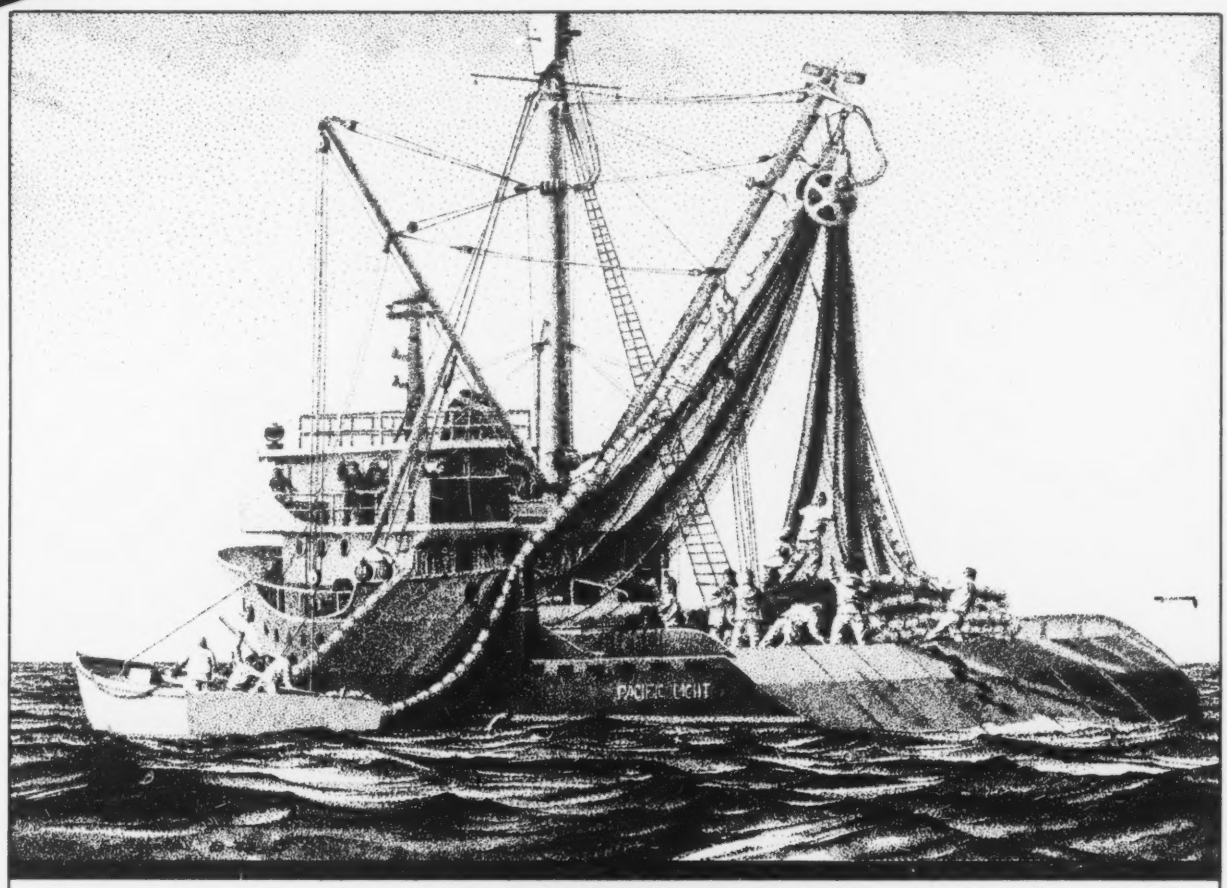

Pacific Packers Report **TUNA:**

Industry Looks to Tariff for Relief

The big question in the American tuna industry this year is not how well mainland tuna packers will do, but whether they'll even be around to talk about it next year or the year after.

Two more major tuna canners said at the end of the first quarter of 1984 that continued imports of cheap canned tuna will make shutdown of their California canneries inevitable.

The presidents of Star-Kist Foods and Pan Pacific Fisheries both say they will have no choice but to close canneries employing 2,700 people unless the federal government approves a 35 percent protective tariff on tuna packed in water.

Cannery executives pointed out that more than one million cases of tuna have been shipped into the United States in the first six weeks of the year, up about 60 percent from a year ago.

Van Camp, which both cans tuna in California and imports low-cost canned tuna, remains neutral on the petition for a protective tariff. Jim Reed, chief spokesman for Van Camp's parent firm, Ralston-Purina, said the company handles large volumes of imports and exports and would suffer overall if the countries in which it does business began raising high protective tariffs of the kind advocated by Star-Kist.

"If we are requested to do so, we will cooperate with the Trade Commission," he said. "What will we do if they don't set the tariff and the other canneries move? It's hard to say without seeing what happens."

Star-Kist president Richard L. Beattie maintains that imports have forced his company to cut supermarket

(Continued on page 82)

1983 United States Tuna Pack

(STANDARD CASES*)

REGION	ALBACORE	LIGHTMEAT	TOTAL
U.S. Continental	783,000	9,626,000	10,409,000
Puerto Rico, American Samoa and Hawaii	4,675,000	16,031,000	20,706,000
TOTALS	5,458,000	25,657,000	31,115,000

*48 halves per case
Note: 1983 data are preliminary and estimated.
Source: NMFS

United States Tuna Packs by Type Pack

(STANDARD CASES*)

	ALBACORE				LIGHT MEAT					
YEAR	Solid	Chunks	Grated & Flakes	Total	Solid	Chunks	Grated & Flakes	Total	TOTAL	YEAR
1952	1,349,796	760,531	483,630	2,593,957	1,489,387	3,144,693	1,265,597	5,899,677	8,493,634	1952
1953	1,477,659	713,096	499,880	2,690,635	1,476,053	3,392,672	1,124,732	5,993,457	8,684,092	1953
1954	1,422,269	425,826	447,594	2,295,689	1,791,514	4,805,510	1,234,157	7,831,181	10,126,870	1954
1955	1,654,775	336,913	433,727	2,425,415	1,401,015	4,374,343	868,641	6,643,999	9,069,414	1955
1956	1,887,438	454,134	328,976	2,670,548	1,574,651	6,505,454	965,926	9,046,031	11,716,579	1956
1957	2,155,104	899,310	491,228	3,545,642	1,316,312	5,391,053	906,552	7,613,917	11,159,559	1957
1958	1,984,746	468,340	415,286	2,868,372	1,332,399	7,742,364	1,272,614	10,347,377	13,215,749	1958
1959	2,185,877	449,266	460,491	3,095,634	1,201,786	8,131,658	1,101,115	10,434,559	13,530,193	1959
1960	2,571,359	1,010,772	494,332	4,076,463	986,153	9,134,416	1,108,402	11,228,971	15,305,434	1960
1961	2,575,010	844,514	471,907	3,891,431	1,094,750	9,678,056	1,103,467	11,876,273	15,767,704	1961
1962	2,755,045	1,428,438	601,071	4,784,554	1,433,216	9,614,491	1,185,667	12,233,374	17,017,928	1962
1963	3,537,068	1,060,232	668,871	5,266,171	645,622	9,712,549	931,478	11,289,649	16,555,820	1963
1964	3,517,340	1,963,501	501,425	5,982,266	1,002,068	9,952,429	752,240	11,706,737	17,689,003	1964
1965	3,650,549	1,985,700	524,687	6,160,936	1,196,272	10,071,458	670,138	11,937,868	18,098,804	1965
1966	3,739,290	2,304,662	530,131	6,574,083	1,084,757	11,449,794	844,933	13,379,484	19,953,567	1966
1967	3,980,476	2,183,351	528,230	6,692,057	868,959	11,167,976	952,644	12,989,579	19,681,636	1967
1968	3,704,454	2,366,488	468,997	6,539,939	1,266,587	11,522,250	682,914	13,471,751	20,011,690	1968
1969	4,261,305	1,928,561	535,468	6,725,334	1,235,113	11,531,740	605,452	13,372,305	20,097,639	1969
1970	4,696,060	1,873,744	424,515	6,994,319	1,535,639	12,662,957	870,425	15,069,021	22,063,340	1970
1971	4,017,897	2,311,862	423,276	6,753,035	1,070,624	13,545,365	835,949	15,451,938	22,204,973	1971
1972	6,311,418	2,251,978	465,710	9,529,106	2,012,981	18,775,190	892,825	21,680,996	31,210,102	1972
1973	6,389,185	1,825,834	539,032	8,754,051	1,734,791	20,558,426	1,058,323	23,351,540	32,105,591	1973
1974	6,329,053	1,348,817	484,456	8,162,326	1,810,202	22,235,539	1,155,866	25,201,607	33,363,933	1974
1975	3,894,434	884,482	234,653	5,013,569	1,335,316	19,971,267	481,499	21,788,082	26,801,651	1975
1976	4,757,090	950,468	258,115	5,965,673	1,495,922	22,350,310	492,584	24,338,816	30,304,489	1976
1977	4,615,000	1,390,000	216,000	6,221,000	1,664,000	19,468,000	307,000	21,439,000	27,660,000	1977
1978	5,578,916	1,265,543	275,754	7,120,213	1,690,372	26,435,590	388,966	28,514,928	35,635,141	1978
1979	4,493,388	1,033,292	278,242	5,804,922	1,341,195	23,976,226	300,138	25,597,559	31,402,481	1979
1980	4,350,105	965,372	189,948	5,505,425	784,227	24,032,002	187,068	25,003,297	30,508,722	1980
1981	5,005,780	731,265	89,445	5,826,490	433,720	25,318,876	175,042	25,927,638	31,754,128	1981
1982	5,216,388	734,860	69,490	6,020,738	1,806,538	19,172,799	87,366	21,066,703	27,087,441	1982
1983	N/A	N/A	N/A	5,458,000	N/A	N/A	N/A	25,657,000	31,115,000	1983

*48 halves per case
Note: 1983 data are preliminary and estimated.
Source: NMFS

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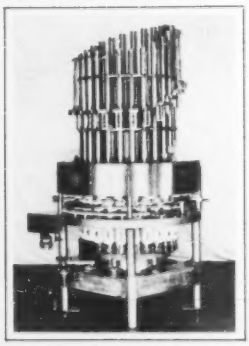

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TUNA (cont. from page 78)

prices. To do so, Star-Kist had to slash payments to fishermen so low that many tuna boat owners are now either idle or on the verge of bankruptcy.

The tuna industry overall showed a loss of 5.5 percent on total sales dollars in 1982 and a 3.4 percent loss on sales in 1983. Packers contend they cannot continue to operate in California when foreign tuna is being shipped in and sold for $24 dollars a case, a price below Star-Kist's cost just to can the tuna.

Beattie said that canners recognized that fishermen were facing very slim profit margins last year and tried to buy as much tuna as possible so that fishermen could make up for the small profit per ton by selling more tons. By late November, however, cannery warehouses were filled to capacity, inventories had soared, and Star-Kist was forced to ask tuna boat captains to delay 39 days before sailing again.

For many years, the critical ingredient for the success of a tuna cannery was maintaining a reliable supply of tuna for an expanding market. Now, however, several countries have built new tuna fleets and opened up tuna fishing in both the western Pacific and the Indian Ocean, vastly expanding the amount of tuna on the market.

Domestic canners have cut their retail prices an average of 16 percent in the last two years, but are still having trouble competing with imported tuna selling in supermarkets for as little as 59 cents for a 6.5-oz. can.

"A year ago, I said 79 cents was a good price for a can of tuna," said Ed Ryan, administrative vice-president for Star-Kist. "Now I'd be happier than hell to get 79 cents."

Beattie said the flood of tuna imports has been allowed into the country under a quirk in the U.S. protective tariff on tuna. The 35 percent tax on tuna packed in oil was set years ago, when most tuna sold was packed in oil. In the last few years, however, concern about calories has led consumers to switch to tuna packed in water, on which the import tax is only 6 percent. The tax rises to 12 percent when imports equal 20 percent of the amount of tuna canned in the United States the previous year.

Canning costs overseas are so low that neither of the import taxes on tuna packed in water does much to discourage tuna imports, which continued heavy even after the 1983 imports last August exceeded 20 percent of the domestic production in 1982.

Beattie said the higher protective tariff would add only three or four cents to the average cost of a can of tuna, but could save thousands of jobs in California.

"I'm afraid that even in the me-

United States Tuna Packs

(STANDARD CASES*)

YEAR	CALIFORNIA	OREGON AND WASHINGTON	HAWAII, PUERTO RICO, AM. SAMOA, MARYLAND	TOTAL
1960	10,714,911	1,473,540	3,116,983	15,305,434
1961	10,545,568	1,261,666	3,960,470	15,767,704
1962	10,511,164	1,471,189	5,035,575	17,017,928
1963	9,074,754	1,487,036	5,994,030	16,555,820
1964	9,292,629	1,503,283	6,893,091	17,689,003
1965	9,012,710	1,760,757	7,325,337	18,098,804
1966	9,613,331	1,540,670	8,799,566	19,953,567
1967	8,962,412	1,508,537	9,210,687	19,681,636
1968	9,042,920	1,778,382	9,190,388	20,011,690
1969	8,990,094	1,656,951	9,450,594	20,097,639
1970	10,567,515	1,588,905	9,906,920	22,063,340
1971	9,735,943	1,422,117	11,046,913	22,204,973
1972	13,011,296	1,887,008	16,311,798	31,210,102
1973	13,920,431	1,687,610	16,497,550	32,105,591
1974	14,331,606	1,862,093	17,170,234	33,363,933

YEAR	CONTINENTAL	HAWAII, PUERTO RICO AMERICAN SAMOA	TOTAL	YEAR
1975	13,025,544	13,776,107	26,801,651	1975
1976	15,921,290	14,383,199	30,304,489	1976
1977	12,605,000	15,054,907	27,660,237	1977
1978	16,591,000	19,989,132	35,580,132	1978
1979	14,222,000	17,559,000	31,781,000	1979
1980	14,287,759	16,220,963	30,508,722	1980
1981	13,233,951	18,520,177	31,754,128	1981
1982	9,512,000	15,096,000	24,608,000	1982
1983	10,409,000	20,706,000	31,115,000	1983

*48 halves per case

Note: 1975 begins new reporting system and is comparable only in totals for year. 1983 data are preliminary and estimated.

Source: NMFS

Tuna Prices Paid Fishermen

(DOLLARS)

YEAR	ALBACORE	YELLOWFIN	BLUEFIN	SKIPJACK
1950	400	310	300	290
1951	400-250-300	310	300	290
1952	350	320	310	280
1953	400	320	310	280
1954	400-410	350-330	340-320	320-290
1955	350-310-330	330-270	320-210	290-230
1956	375-300	270	280-260	230
1957	310-280-300	270-230-270*	260-200-260	230-190
1958	425	275-283-263	260	235-252-225
1959	435-400	270-240-253	260-240	230-200-217
1960	325-375	250	250	210
1961	325-375	240-290	220-280	210-260
1962	200-310	300-290	280-250	260-250
1963	275-325	290-240	250-220	250-200-210
1964	300-325	245-270	240	200
1965	300-325	245-336	240-267	200-286
1966	375-390	315-480	290-311	260-392
1967	390-400	265-358	235-280	205-293
1968	425	307-318-315	292-298-295	257-268-265
1969	450	321-332	210-309	271-284
1970	550	346-397	326-377	347-396
1971	630	411-425-421	391-405-403	261-376
1972	680	442-445	422-425	405-408
1973	830	477-501	457-481	447-471
1974	820	575	555	535-545
1975	675	580-500	480	540-450
1976	675-1,000	580-630	560-595	513-590
1977	1,165	665-840	645-820	620-790
1978	1,165	790-840	820	690-790
1979	1,390	810-950	930	545-850
1980	1,635	1,100-1,200	1,180	800-1,100
1981	1,800	1,100-1,200	1,180	800-1,100
1982	1,000-1,350	890-1,170	870-1,150	500-890
1983	1,225-1,350	890-1,170	870-1,150	500-890

Note: Prices quoted are per short ton of round fish in good condition landed at the canner's dock. 1983 prices vary depending on the size of the fish.

Source: NMFS

dium term, we are going to have a hell of a time surviving unless we move operations offshore," Beattie said, referring to canneries in Samoa and Puerto Rico.

Both Beattie and Pan Pacific president Robert J. Pasarow said they are hopeful that the International Trade Commission, an independent panel that recommends tariffs to President Reagan, will rule in the U.S. tuna industry's favor.

O.E. "Bud" Kearns, executive director of the Tuna Foundation, said the Trade Commission is expected to make a preliminary finding that there is a problem in the tuna industry, a declaration necessary for its staff to carry out an investigation. The commission will then order a study of the situation, conduct hearings, and file a recommendation within six months.

Of the 47 companies that have filed International Trade Commission petitions in the last few years, only five have been granted protective tariffs.

At best, the tariff would only be temporary. The tuna canneries would have five years to increase automation and productivity, diversify product lines, and boost overseas sales.

Kerns maintains that the tuna industry could turn the situation around by then.

"We could hope that in five years the strength of the U.S. dollar overseas would be different than it is now, that the canneries would be in better shape and have sufficient capital to introduce new products, improve yields, and restructure the financial posture of the purse seine fleet," he said.

Three unions joined with the canneries in support of the tariff, including the United Industrial Workers, which represents 1,600 employees in Star-Kist's tuna plant and 1,100 in Pan Pacific's tuna cannery. Endorsements also came from the International Longshoremen and Warehousemen's Fisherman's Union and the Fisherman's Union of America. — *John Davies*

Continental Imports of Frozen Tuna

(SHORT TONS)

YEAR	ALBACORE	BLUEFIN	SKIPJACK	YELLOWFIN	TOTAL
1961	15,602	639	5,172	30,572	61,985
1962	16,084	725	2,397	45,325	64,531
1963	8,488	1,179	4,674	24,720	39,061
1964	16,716	1,839	3,208	26,937	48,700
1965	22,189	415	2,858	19,686	45,148
1966	24,412	1,576	7,215	30,531	63,734
1967	21,749	1	2,170	13,332	37,252
1968	23,725	40	771	30,161	54,697
1969	22,829	185	1,449	18,241	42,704
1970	15,656	435	10,977	15,337	42,405
1971	12,986	1,292	26,209	9,633	50,120
1972	31,222	2,780	42,642	18,286	94,930
1973	24,376	3,663	89,199	23,386	140,624
1974	24,819	576	79,988	10,314	115,697
1975	7,066	802	21,351	13,549	42,768
1976	34,808	891	40,960	16,318	92,977
1977	8,810	1,085	64,223	20,110	94,228
1978	15,503	221	72,279	37,314	125,317
1979	13,312	54	68,490	24,737	106,593
1980	11,485		77,413	16,280	105,178
1981	14,600		50,763	19,348	84,711
1982	11,115		37,107	8,062	56,284
1983	5,616		41,450	4,415	51,481

Note: Data prior to 1976 is for California only.
Source: NMFS

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Pacific Packers Report AQUACULTURE

Alaska Private Nonprofit Salmon Hatchery Releases and Returns

(NUMBERS OF FISH)

		PINK	CHUM	COHO	KING	TOTAL
1977	Releases	12,063,000	201,877			12,264,877
	Returns	160,147				160,147
1978	Releases	24,087,874	1,014,000			25,101,874
	Returns	160,347				160,347
1979	Releases	29,700,000	900,000			30,600,000
	Returns	563,000				563,000
1980	Releases	31,834,500	3,341,104	561,196		35,736,800
	Returns	1,504,880	1,590			1,506,470
1981	Releases	78,800,000	21,900,000	900,000		101,600,000
	Returns	2,491,345	20,518	52,050		2,563,913
1982	Releases	24,790,000	15,400,000	570,000	220,000	40,980,000
	Returns	136,890	20,772	61,709	3,500	222,871
1983	Releases	126,890,000	41,770,000	1,570,000	14,000	170,244,000
	Returns	4,806,522	126,783	71,781	872	5,005,958

Source: ADF&G

West Coast Public Hatchery Releases

(RELEASES OF FISH IN MILLIONS)

PROGRAM	STEELHEAD	SPRING CHINOOK	FALL CHINOOK	COHO	CHUM	SOCKEYE	PINK	TOTAL
WASHINGTON (1983)								
Washington Dept. of Fisheries	.77	8.67	101.37	64.56	61.89		.29	237.55
U.S. Fish & Wildlife Service		8.42	29.32	5.16	6.93			49.83
Tribes		.19	5.81	2.56	9.94	.12		18.62
WDF-Cooperative		.41	1.87	7.24	.79			10.31
School			.82	.17	1.36			2.35
TOTAL WASHINGTON	.77	17.69	139.19	79.69	80.91	.12	.29	318.66
OREGON (1983)								
Oregon Dept. of Fish & Wildlife								
Columbia River		4.48	28.27	6.40	.01			39.16
Coastal		1.47	1.82	3.03				6.32
Federal Hatcheries								
Columbia River		.54		.44				.98
TOTAL OREGON		6.49	30.09	9.84	.01			46.43
IDAHO (1983)								
Idaho Dept. of Fish & Game	.76	3.85	.19					4.80
Federal Hatcheries	.42	.27	.79					1.48
TOTAL IDAHO	1.18	4.12	.98					6.28
ALASKA (1983)								
Alaska Dept of Fish & Game		1.47		7.38	60.82	52.00	134.70	256.37
CALIFORNIA (1983)								
State	3.60	21.90		1.60				27.10
Federal	.01		.19					.20
TOTAL CALIFORNIA	3.61	21.90	.19	1.60				27.30
BRITISH COLUMBIA (1983)	1.20		23.45	10.69	143.20	211.13	2.96	392.63

Note: Data are preliminary.
Source: State and provincial fisheries agencies

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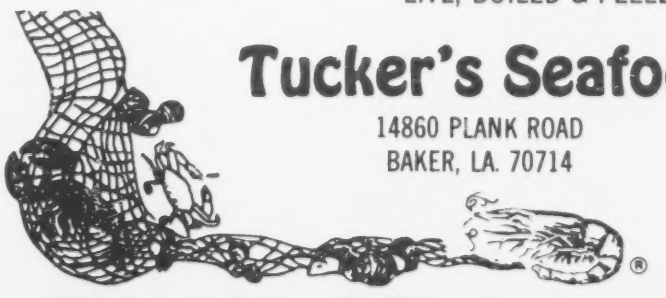

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Oregon Private Salmon Hatchery Releases

(NUMBERS OF FISH)

YEAR OF RELEASE	SPRING CHINOOK	FALL CHINOOK	COHO	CHUM	TOTAL
1972				51,150	51,150
1973		10,025		276,375	286,400
1974		1,018,277	87,782	572,082	1,681,141
1975	5,551	17,982	142,032	2,792,930	2,958,495
1976	161,251	147,662	2,079,834	2,447	2,391,194
1977	42,079		2,370,690	120,400	2,533,169
1978	15,790	522,101	9,967,874	465,174	10,910,939
1979	1,397,131	222,811	5,811,741	10,940,199	18,371,882
1980	1,268,718	438,136	14,811,346	8,000	16,532,200
1981	1,755,892	499,728	23,852,408	5,528,589	31,636,617
1982	351,416	558,640	23,313,154	1,649,406	25,872,616
1983	1,984,723	1,193,690	16,055,018	5,602,617	24,836,048

Note: 1983 data are preliminary.
Source: Oregon Dept. of Fish & Wildlife

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